

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

6194191

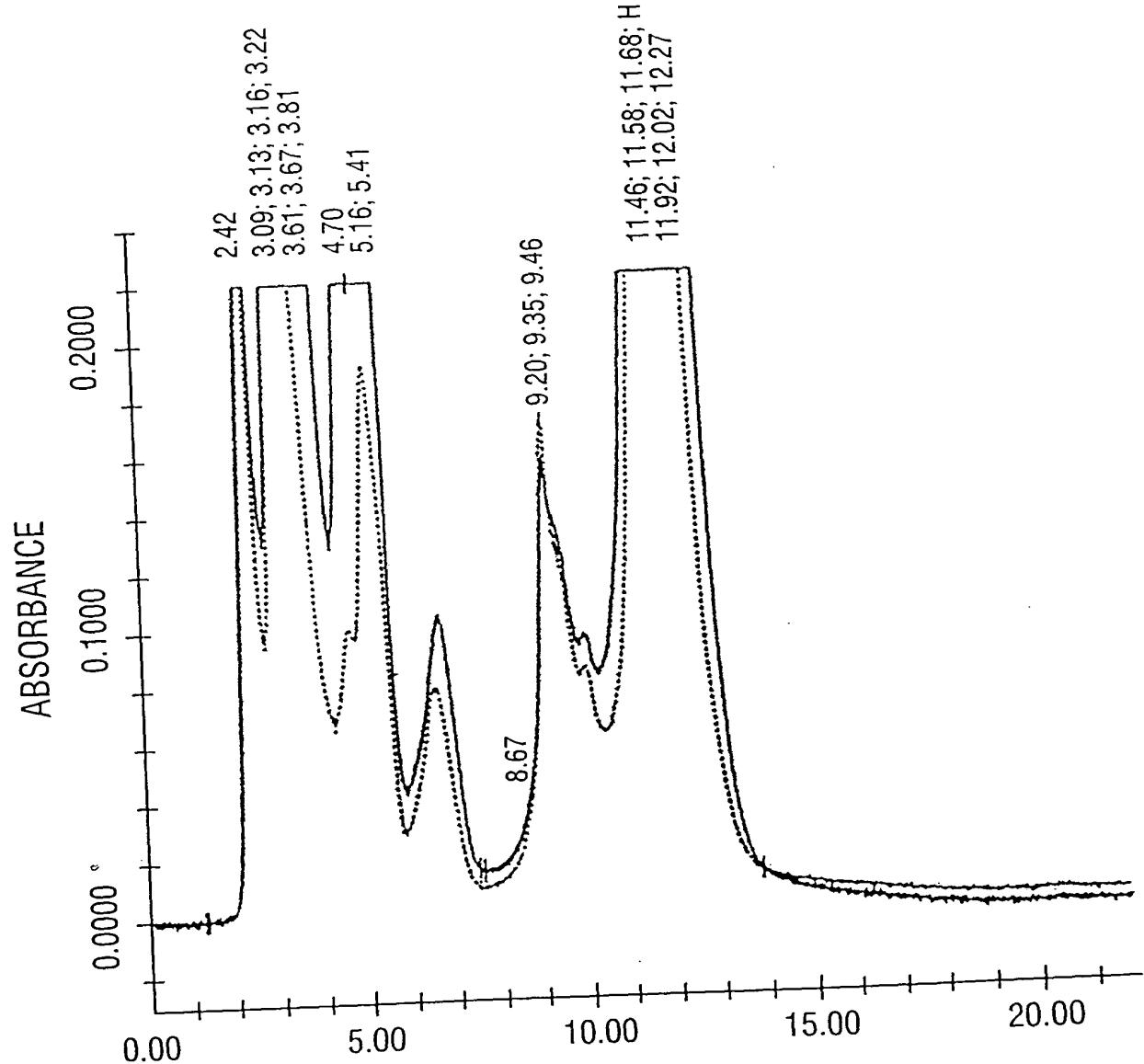


FIG. 1A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

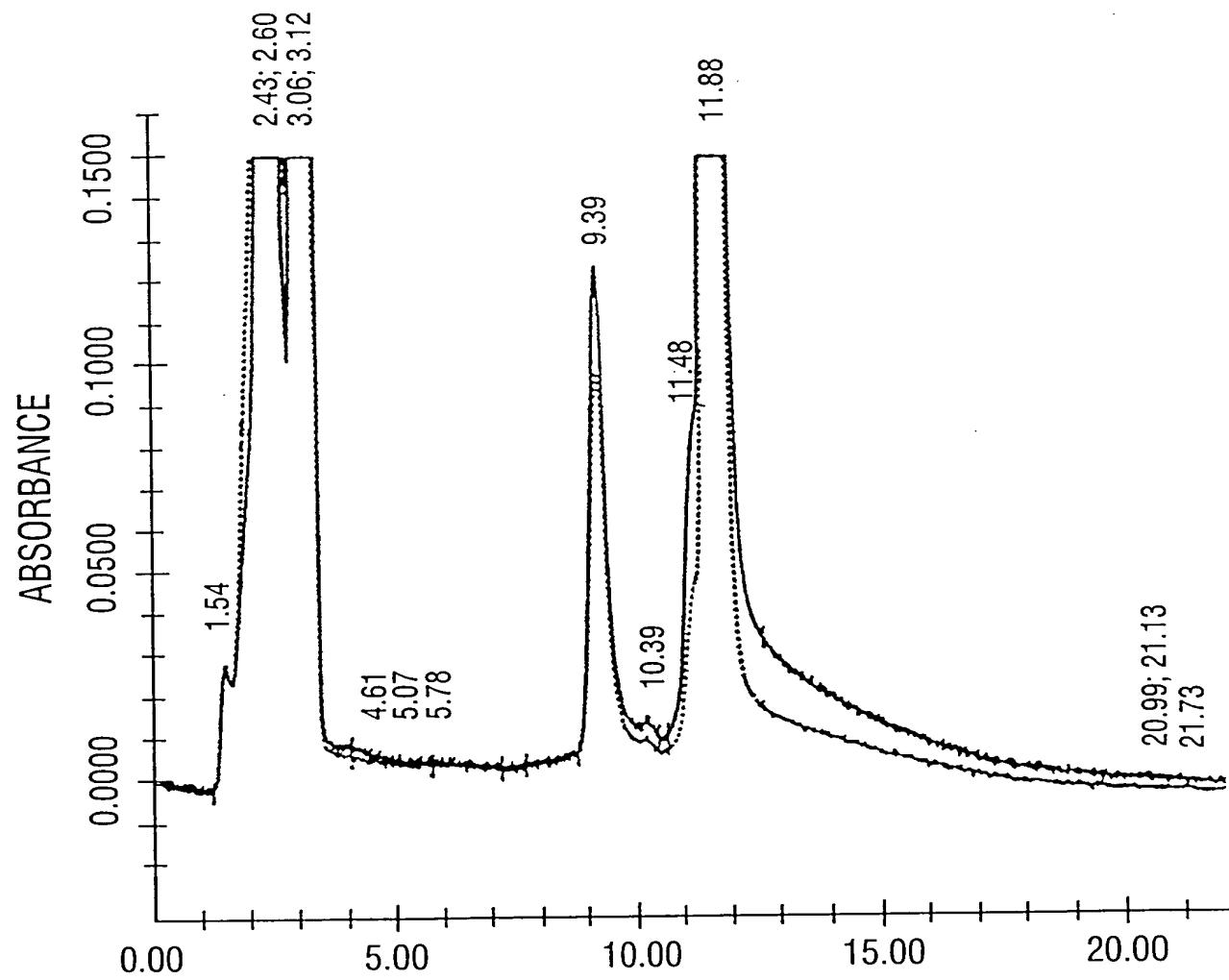


FIG. 1B

APPROVED BY	O.G., FIG.
DRAFTSMAN	CLASS / SUBCLASS

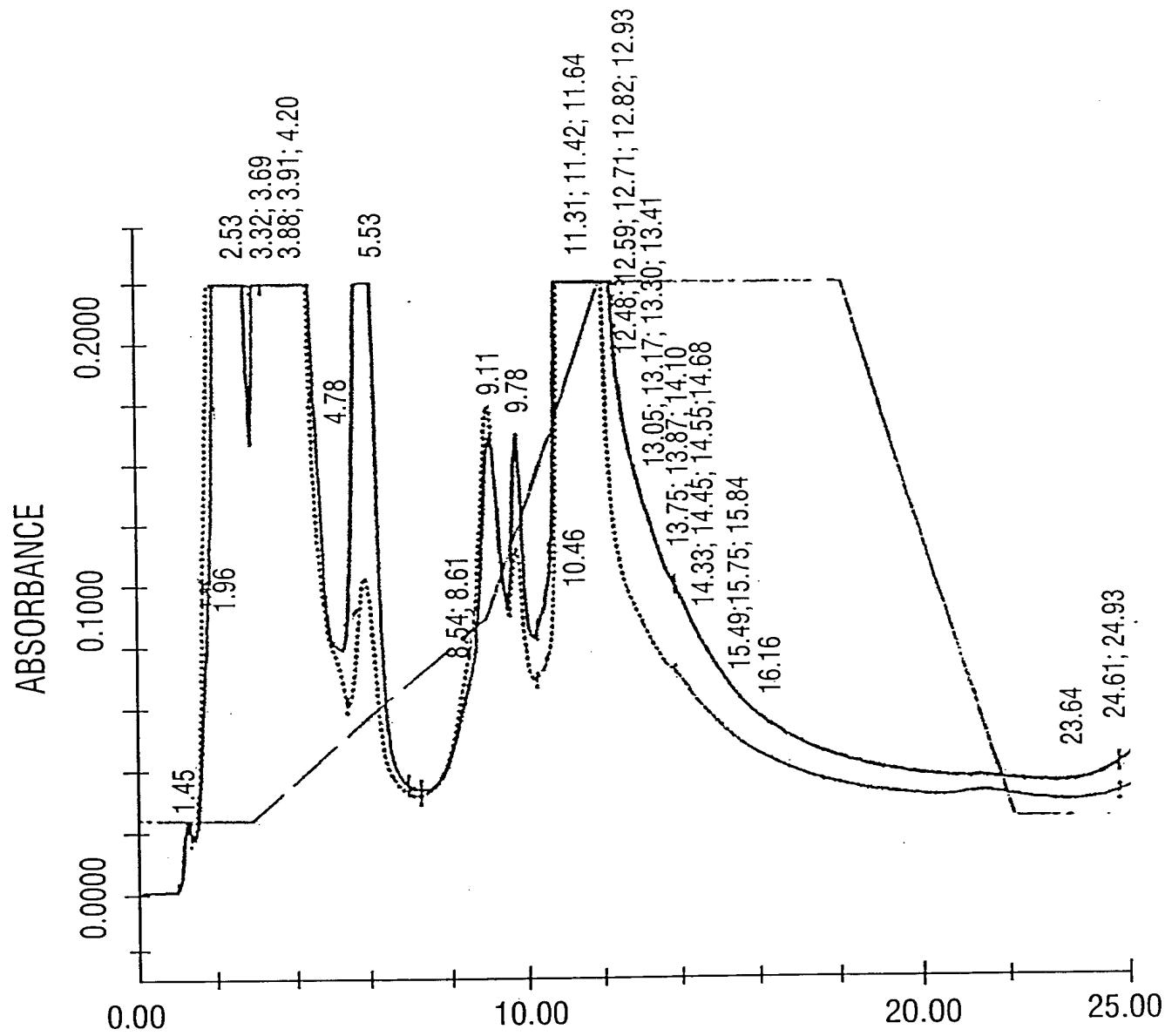


FIG. 2

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

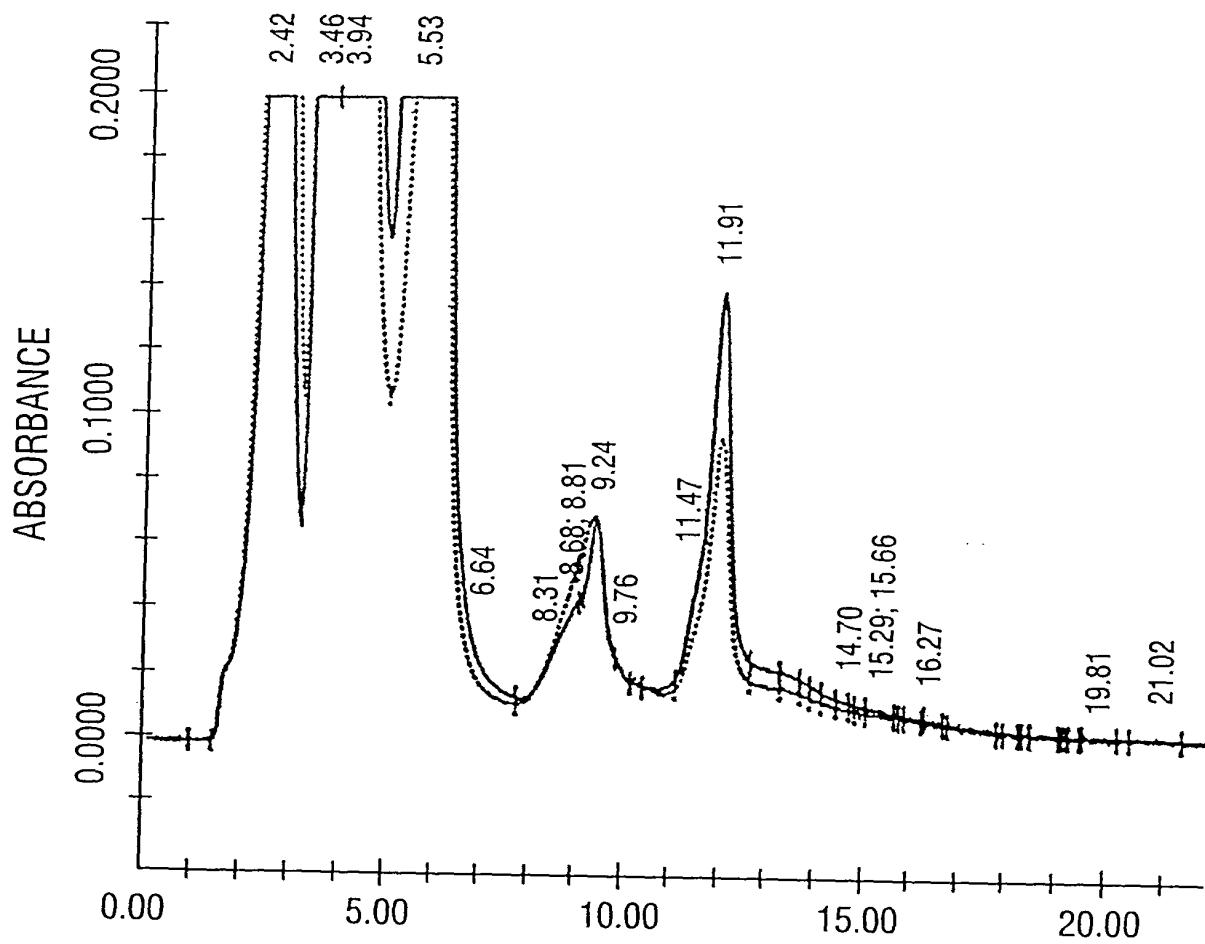


FIG. 3A

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

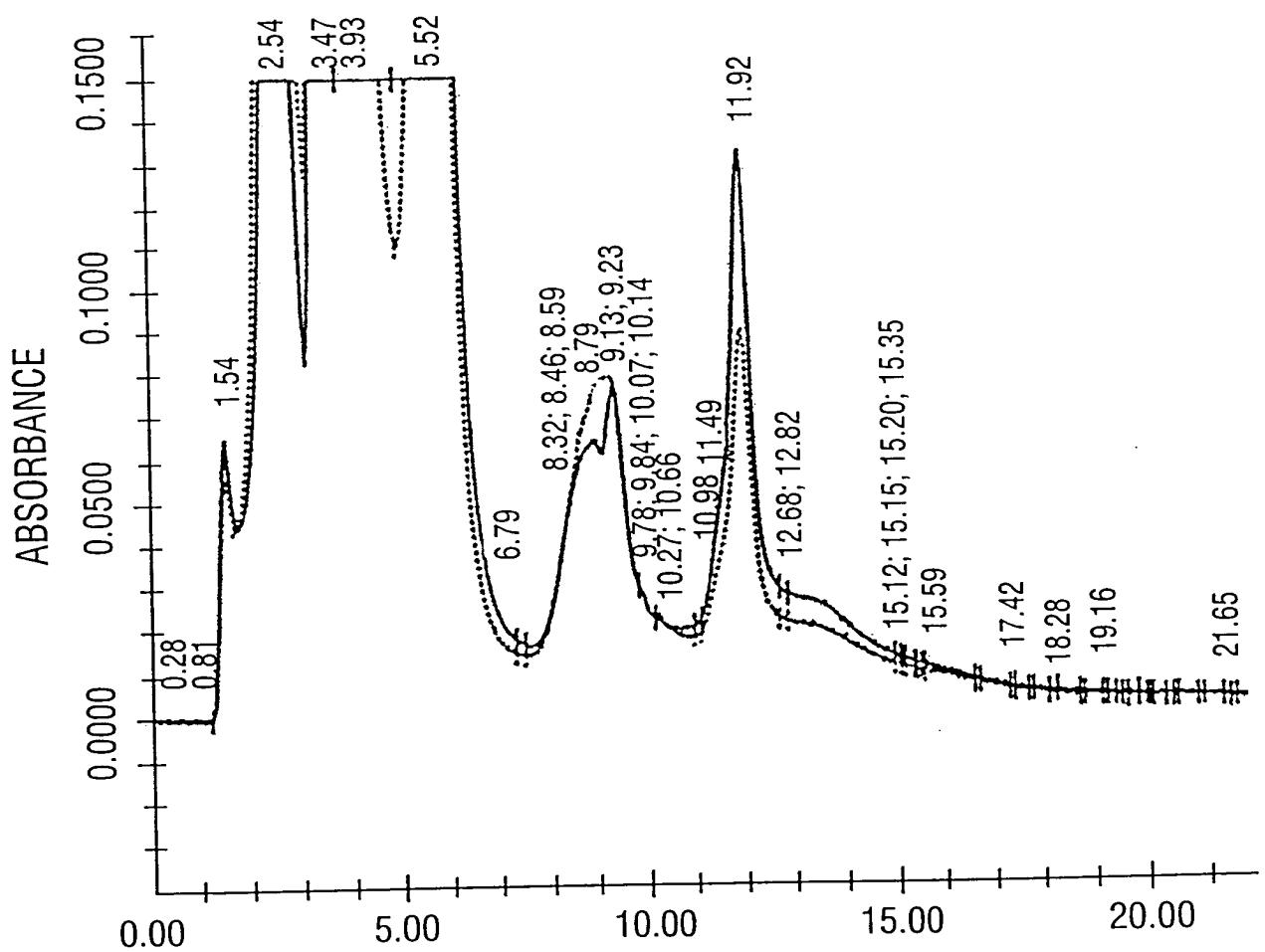
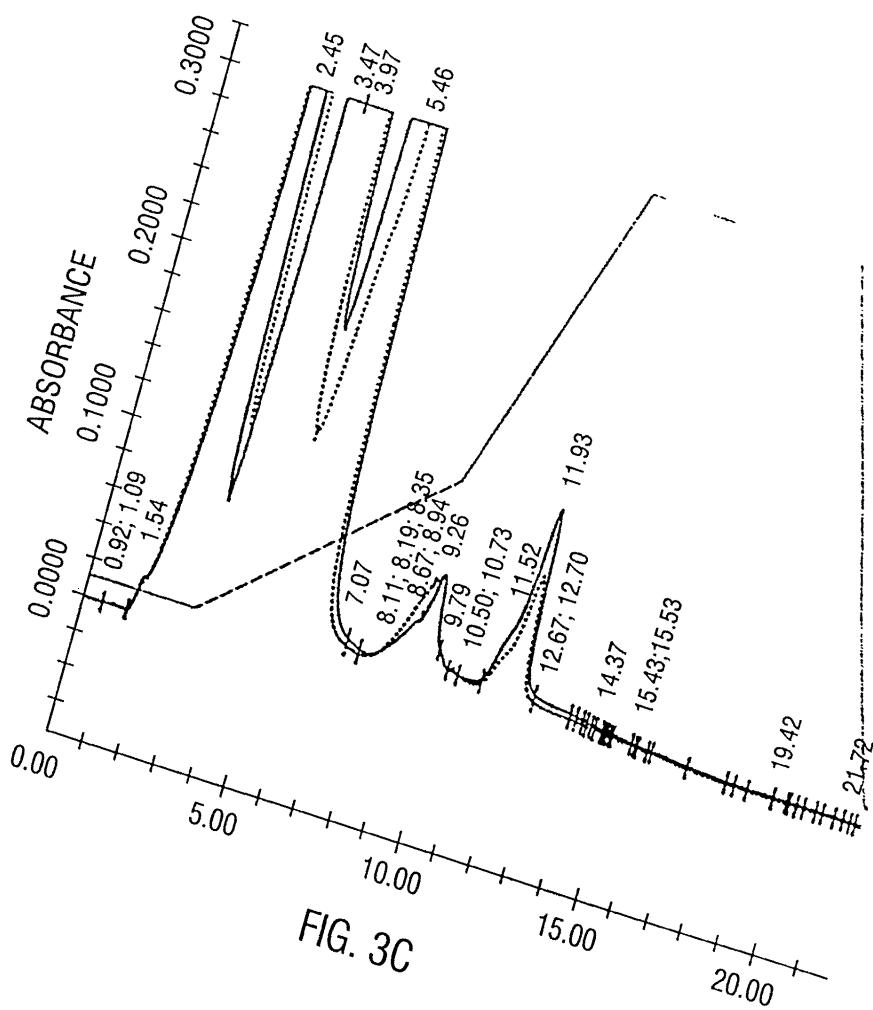


FIG. 3B

APPROVED	D.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

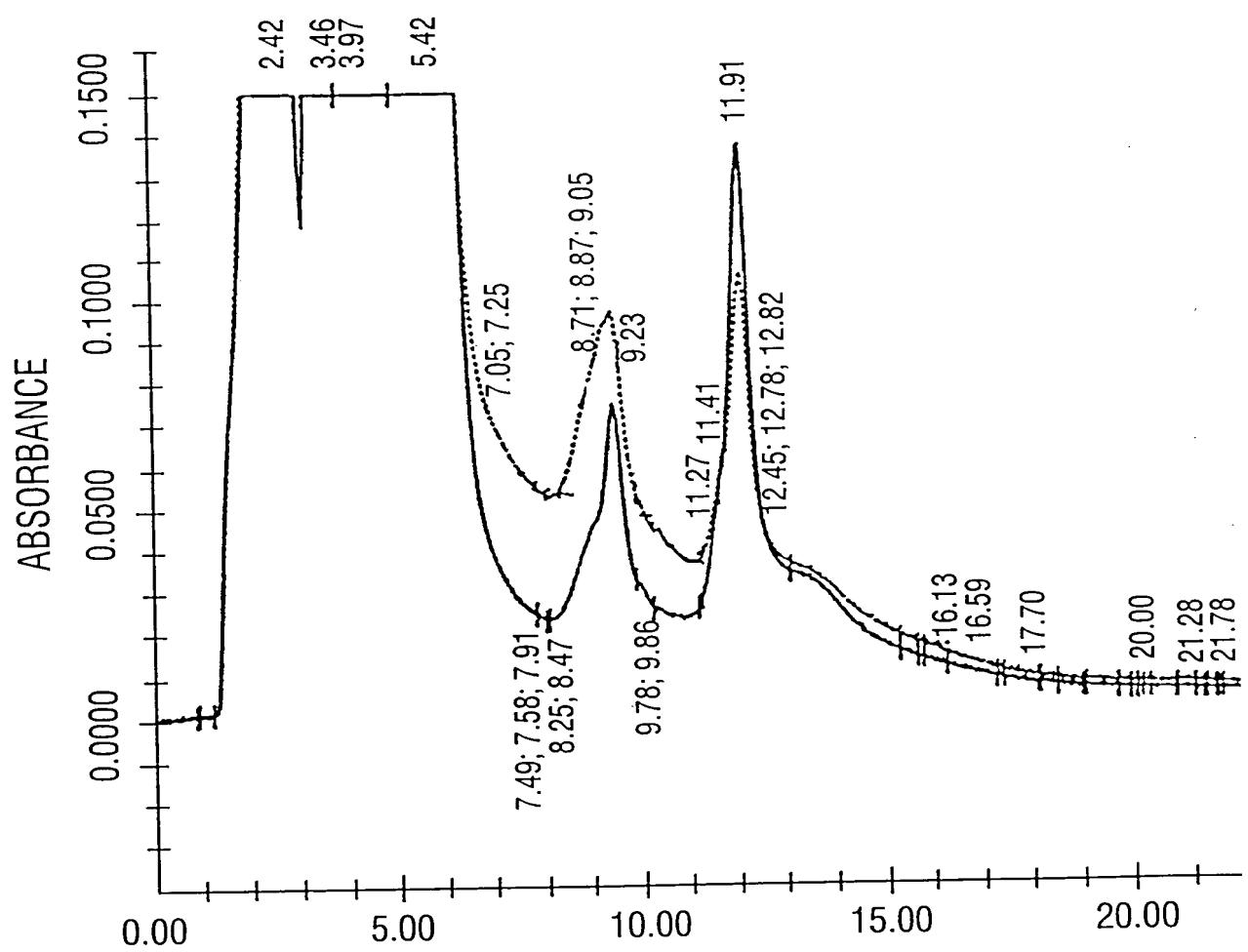


FIG. 3D

APPROVED	C.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

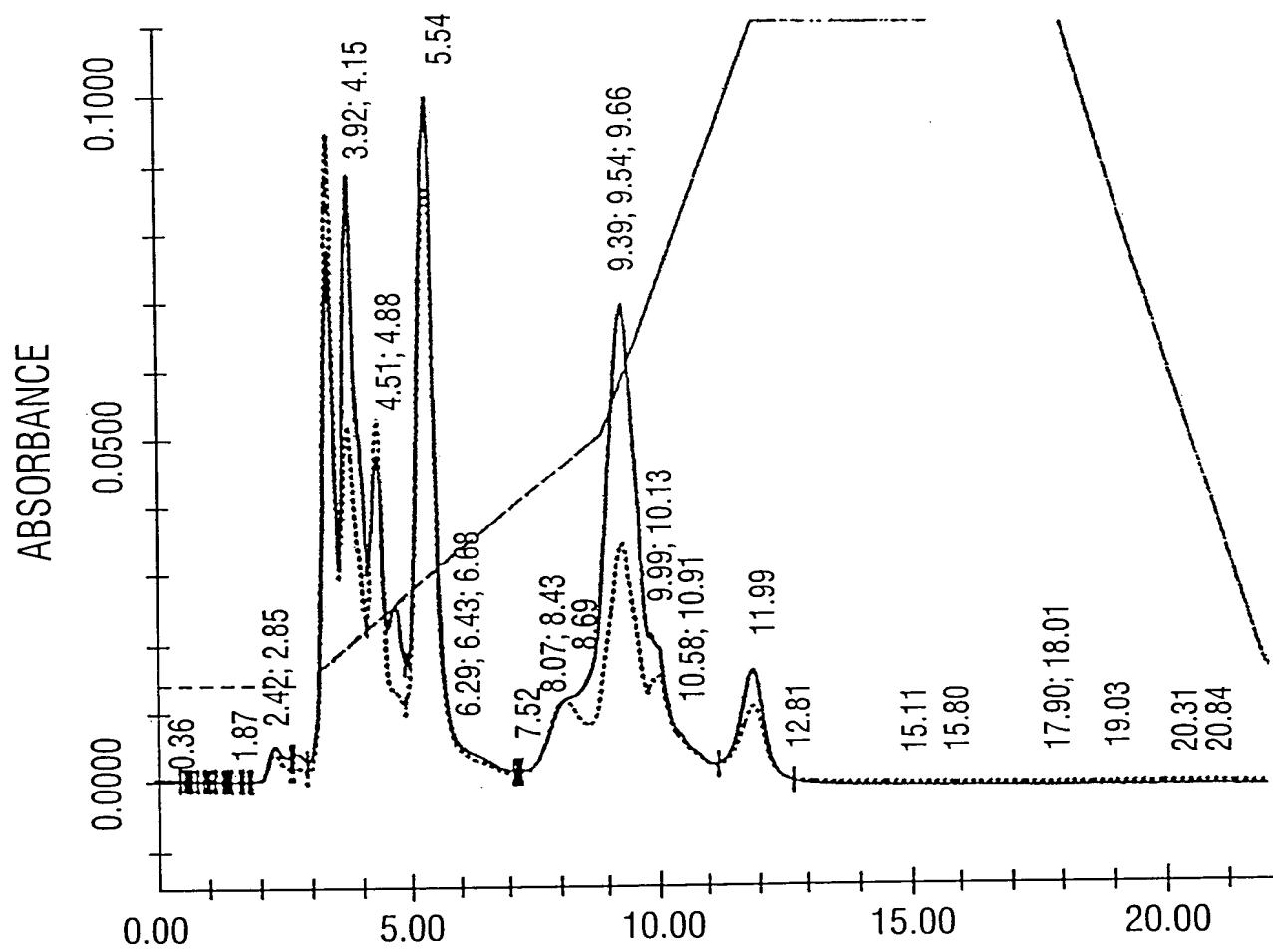


FIG. 3E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

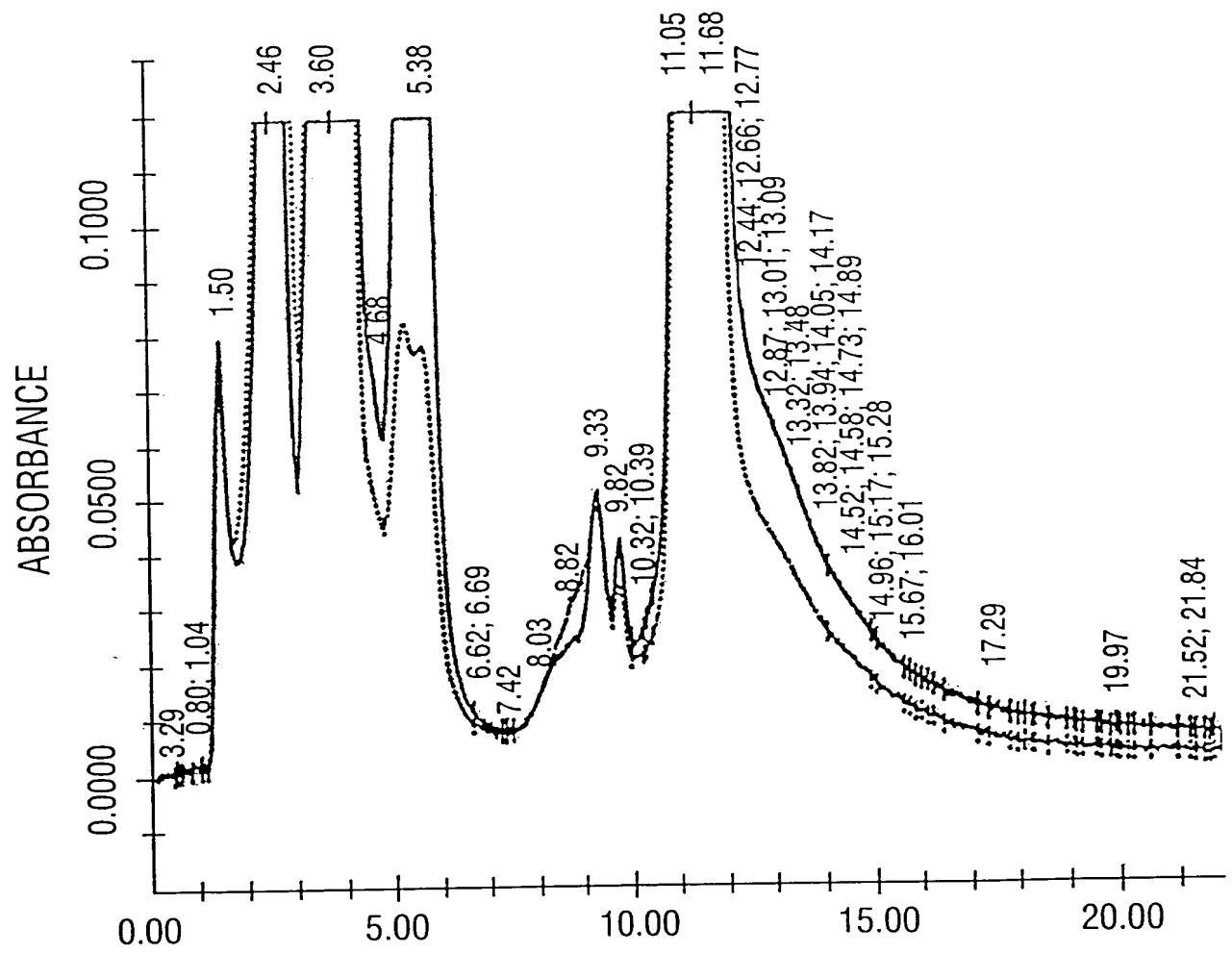


FIG. 4A

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

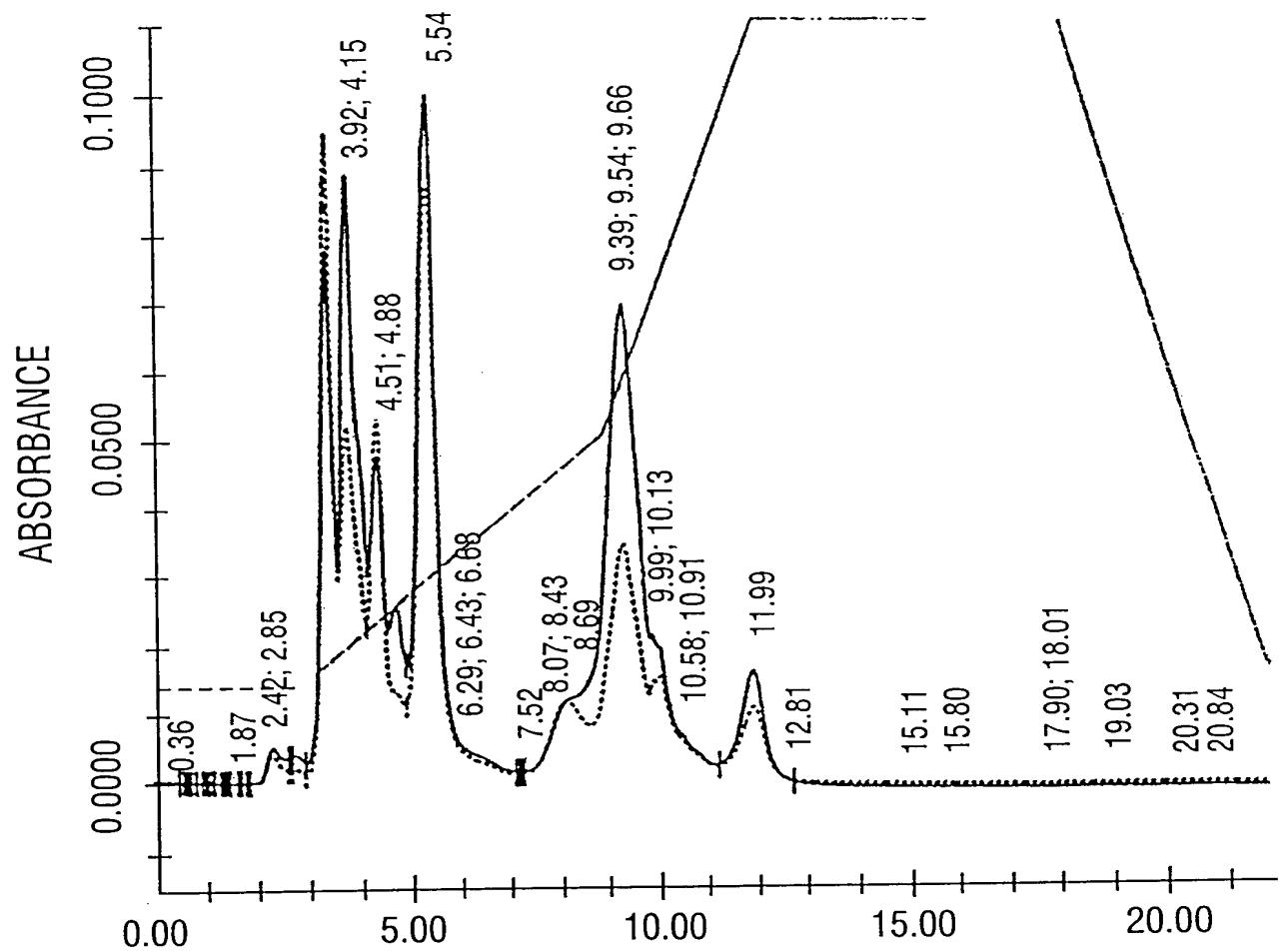


FIG. 4B

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

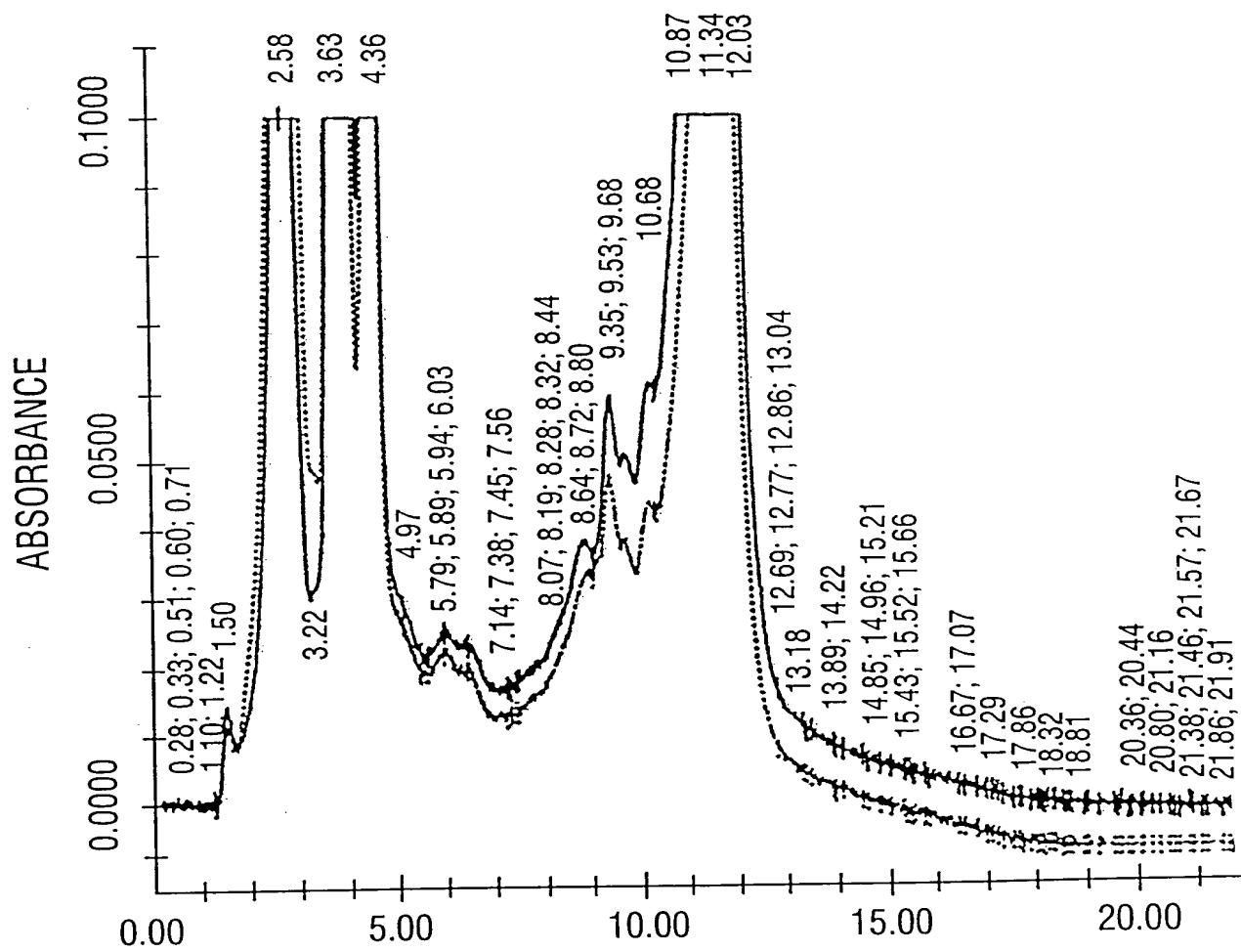


FIG. 5

APPROVED BY	O.G., FIG.
DRAFTSMAN	CLASS SUBCLASS

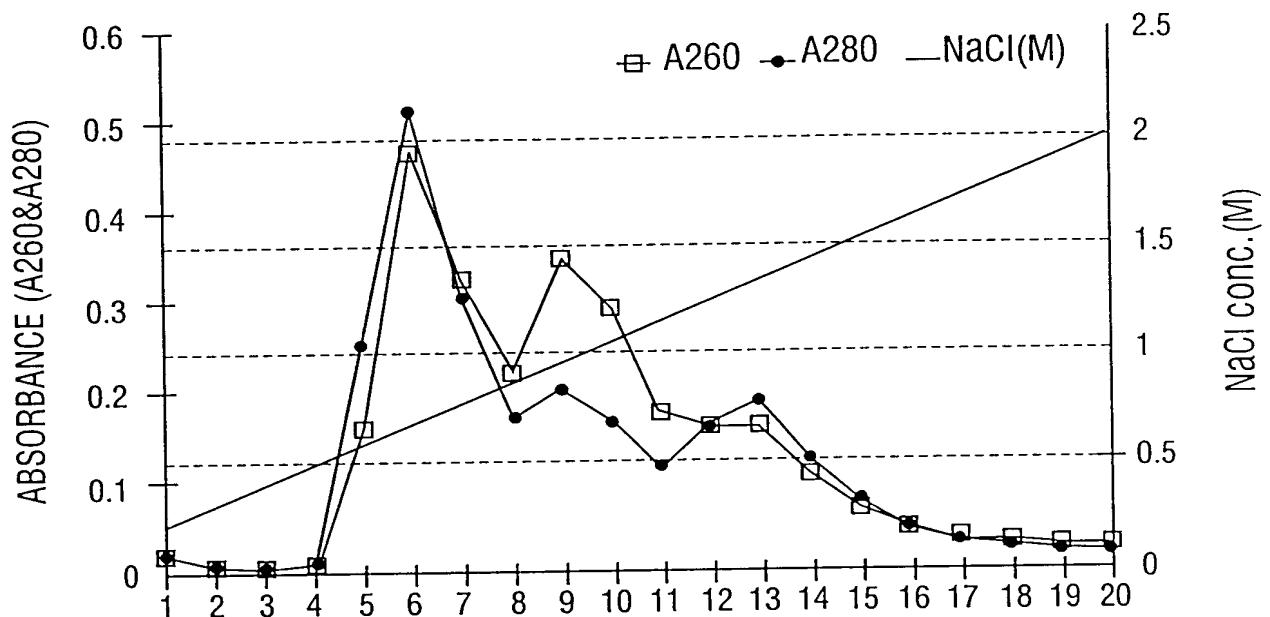


FIG. 6

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS SUBCLASS

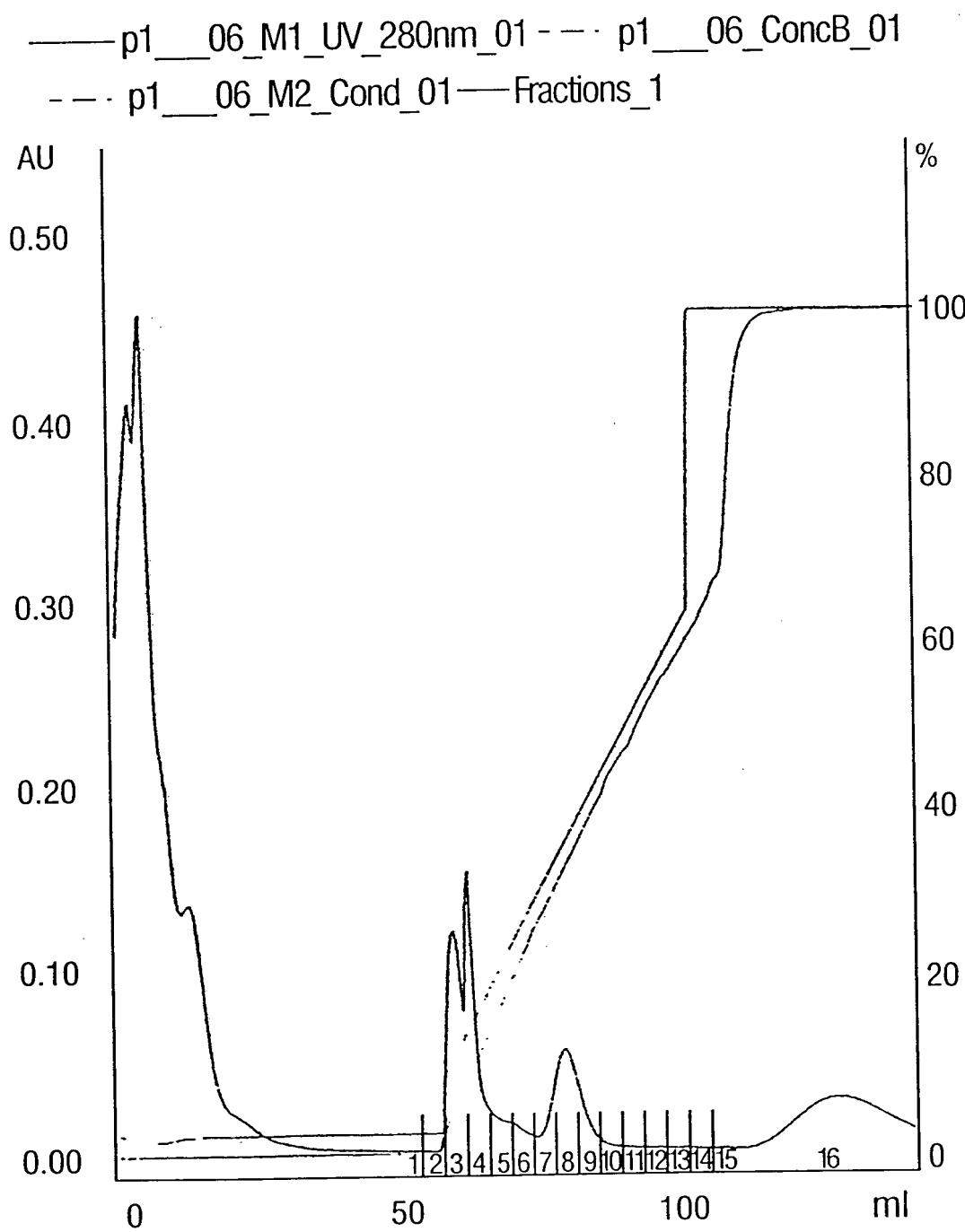


FIG. 7

APPROVED	O.G., FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

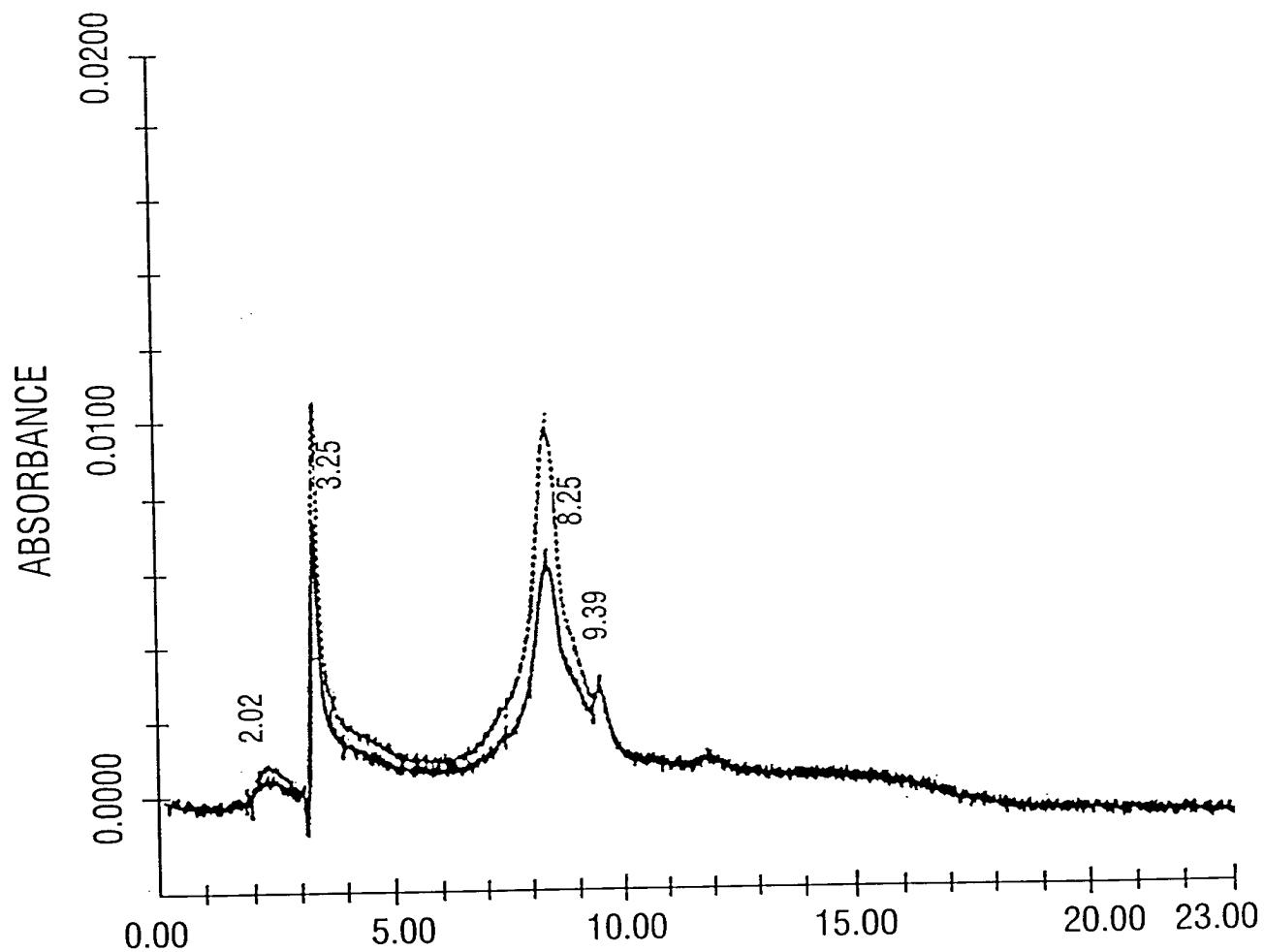


FIG. 8A

APPROVED	G.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

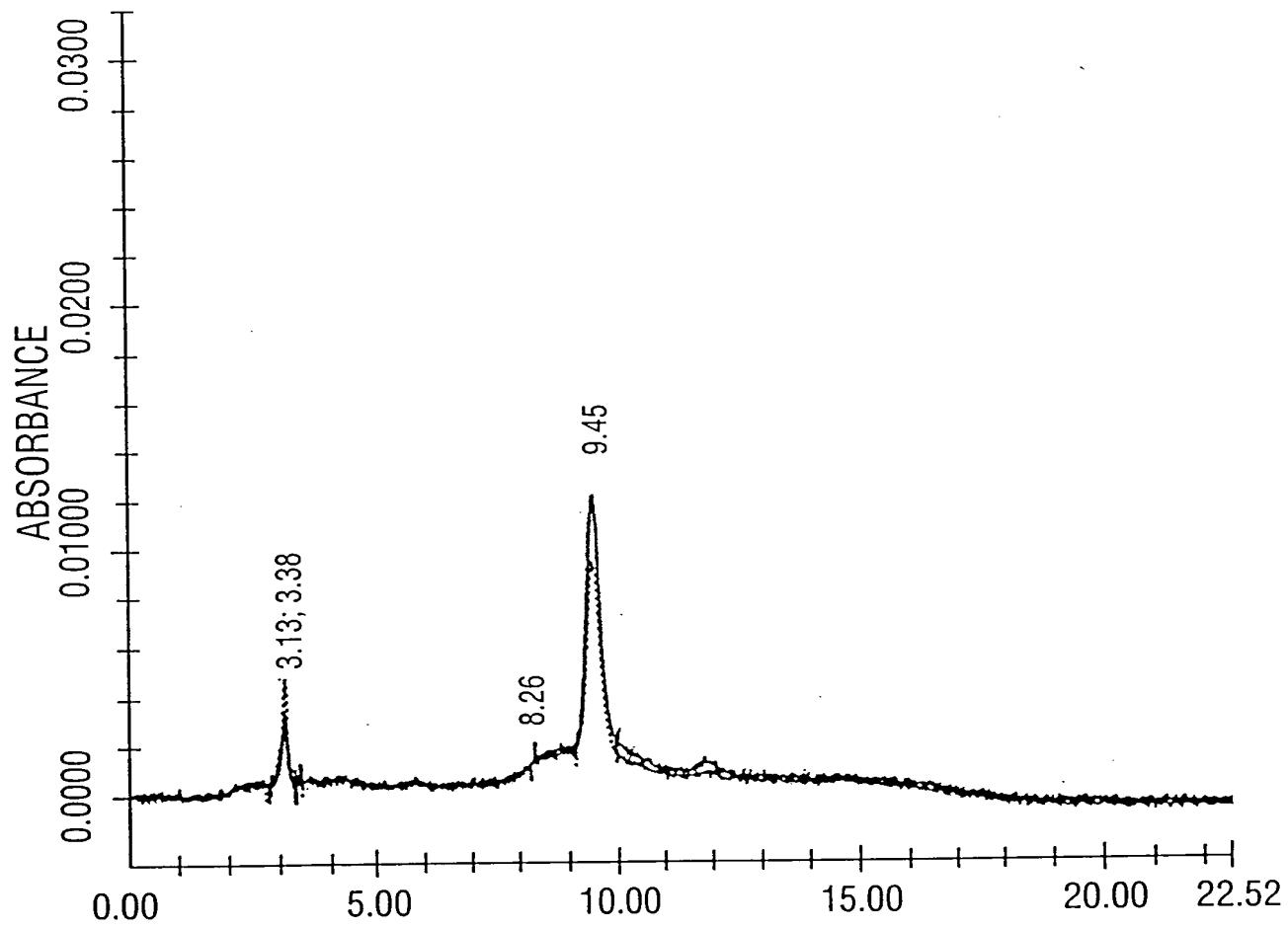


FIG. 8B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

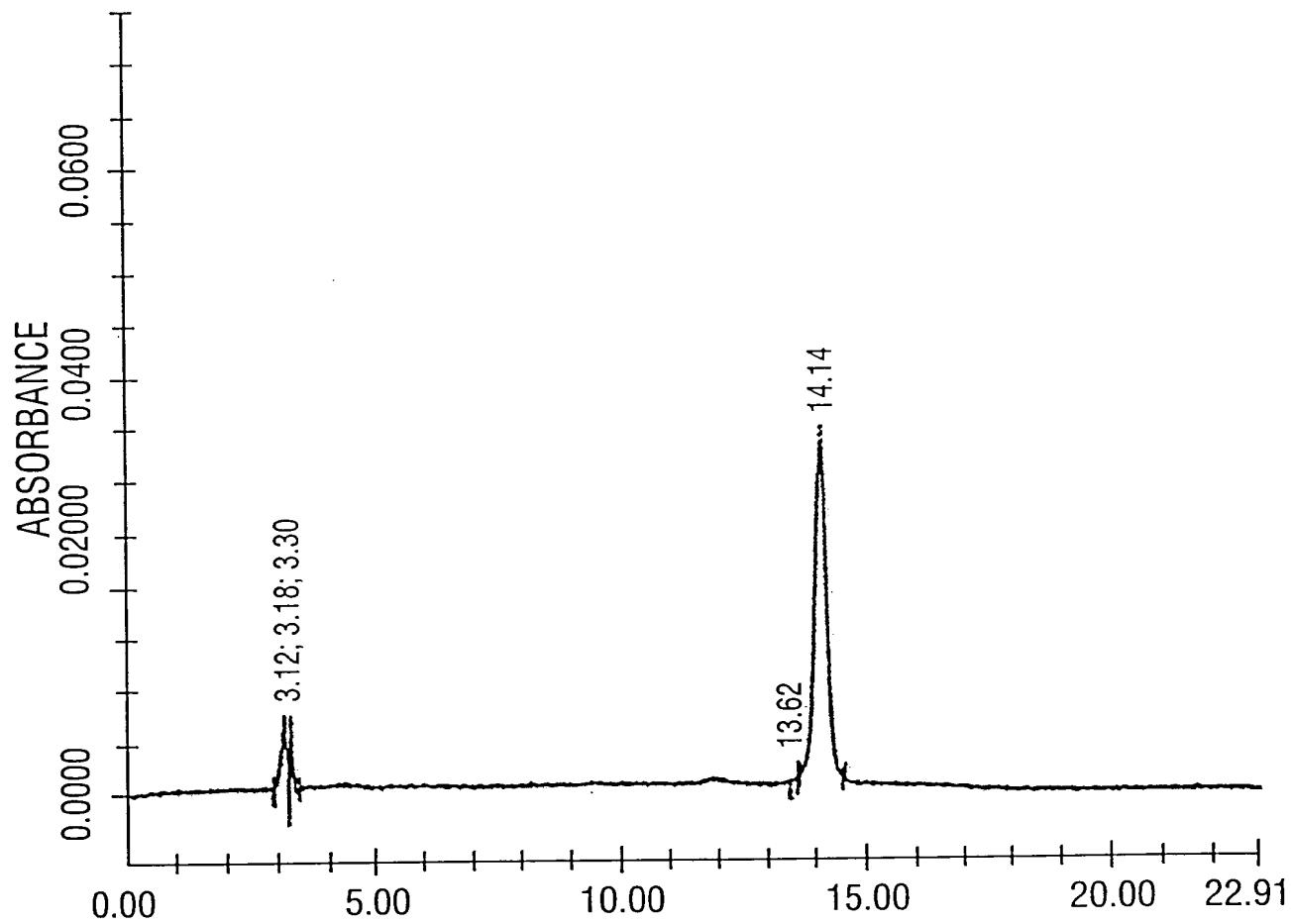


FIG. 8C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

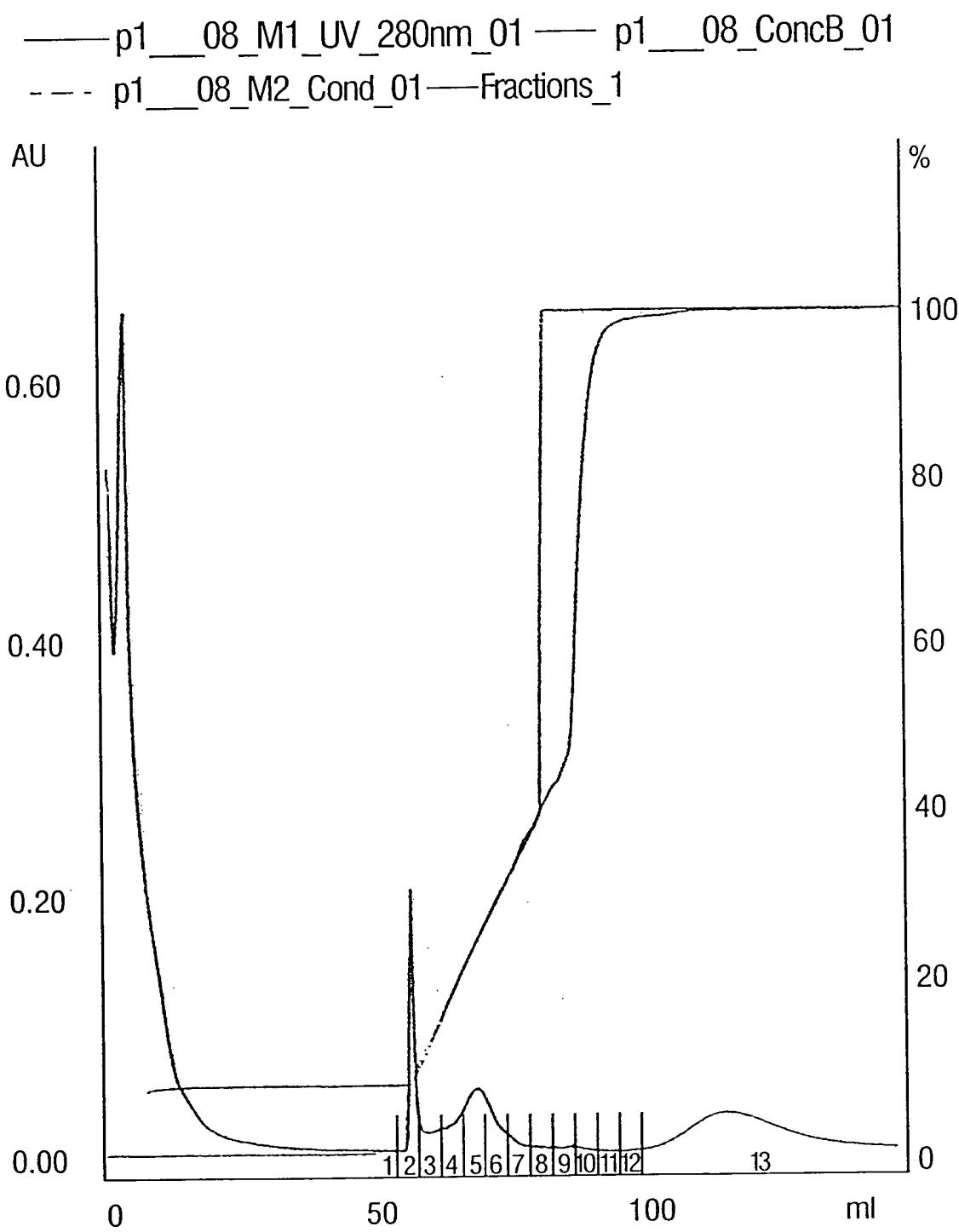


FIG. 9

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

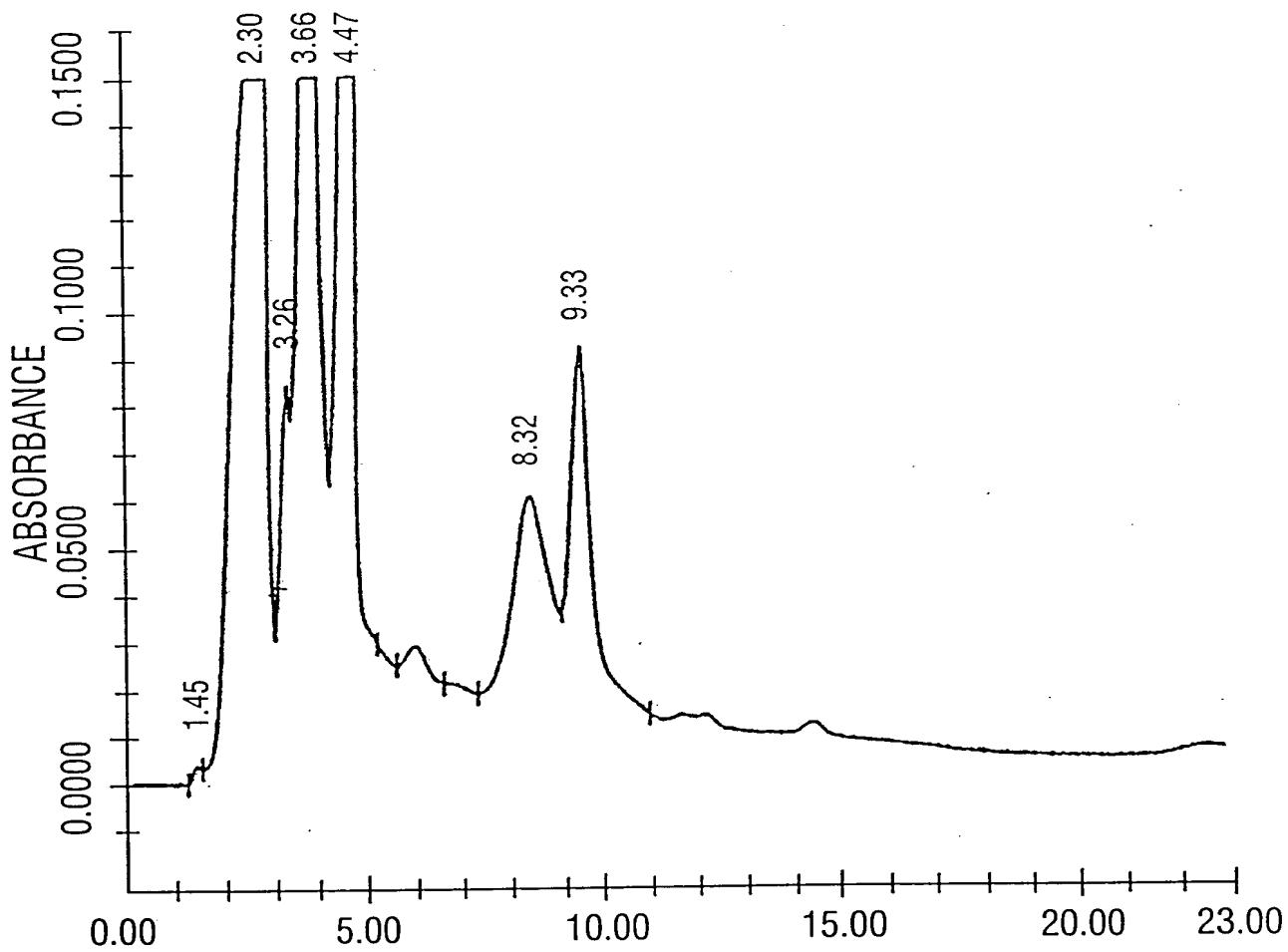


FIG. 10A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

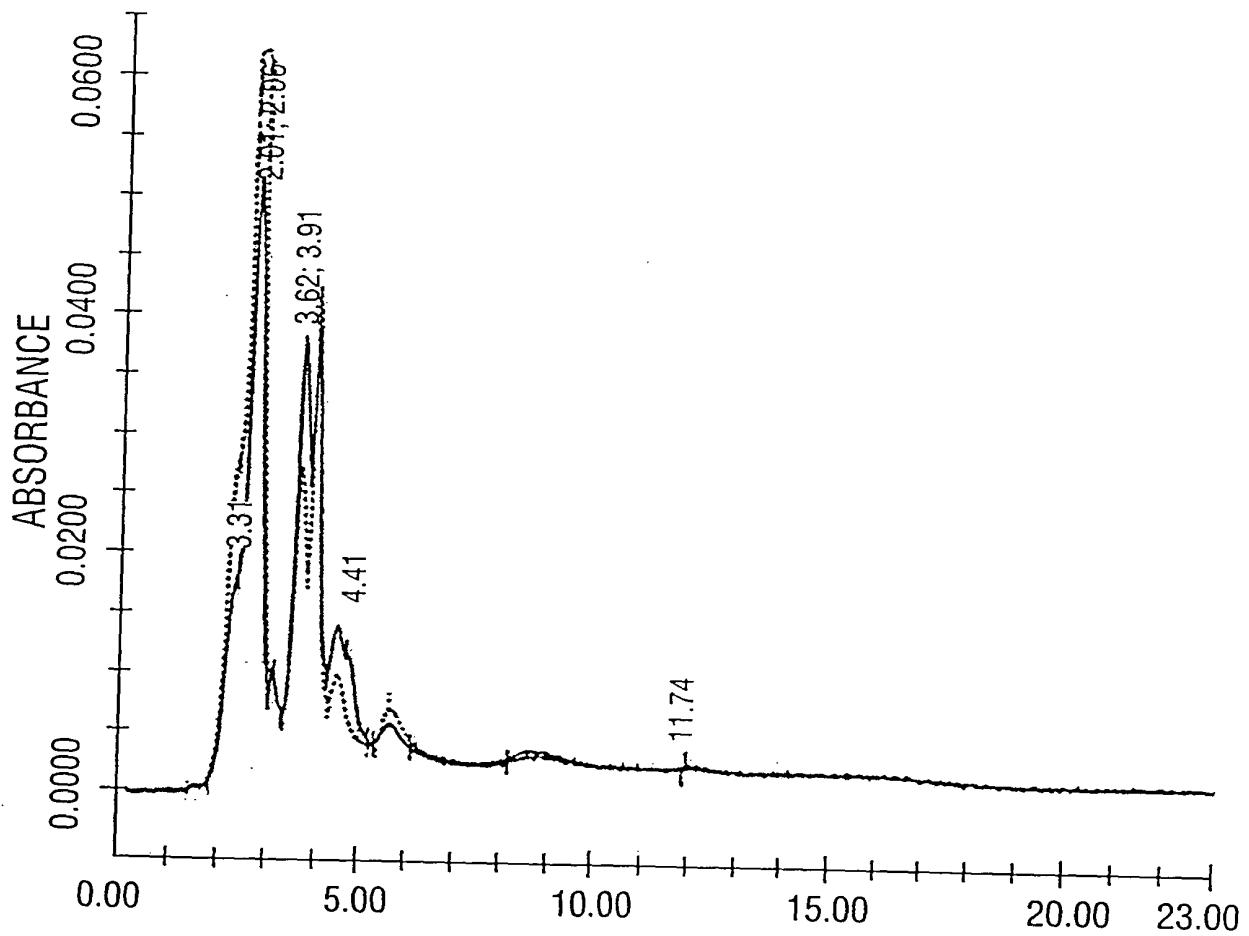


FIG. 10B

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

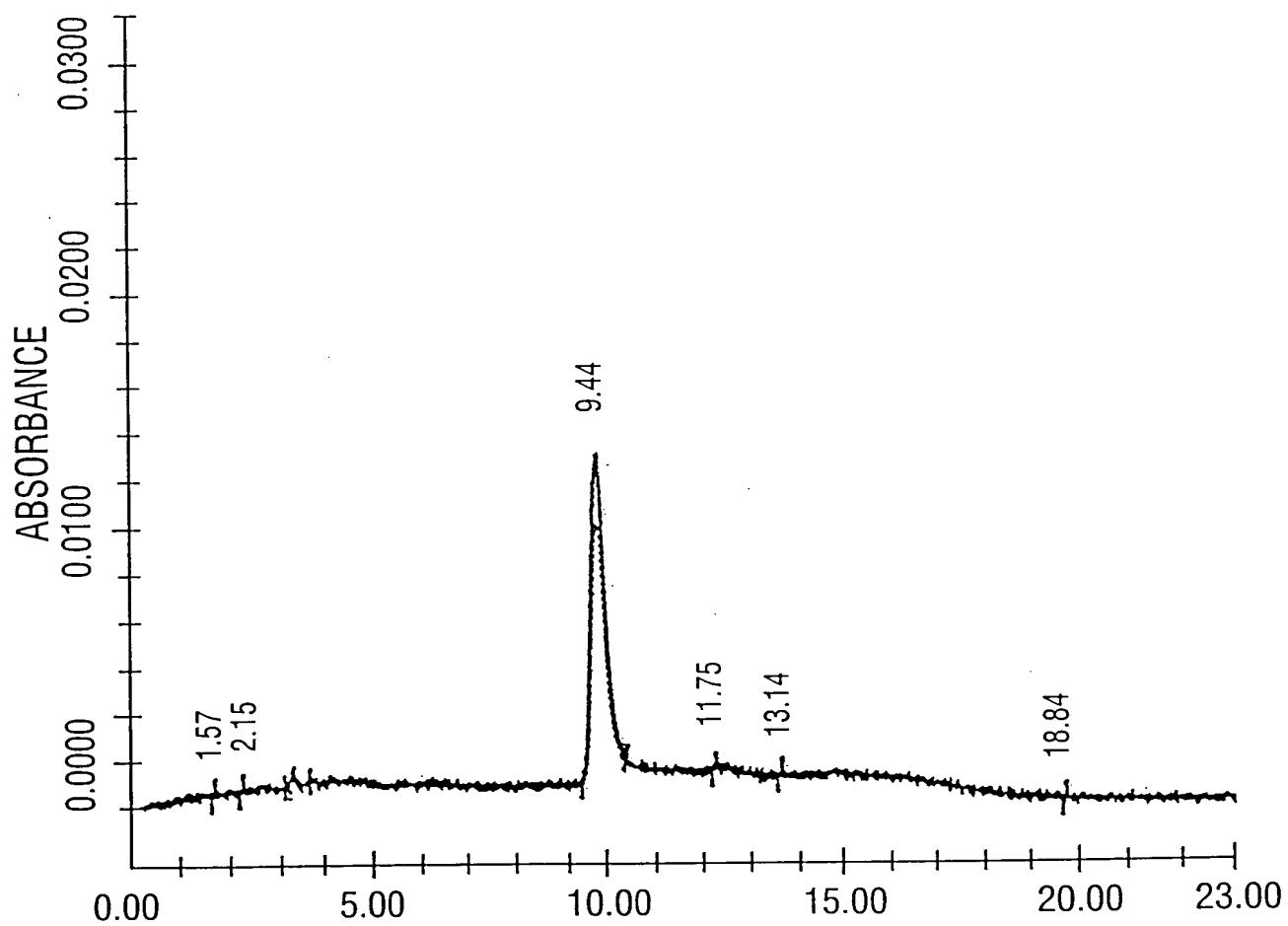


FIG. 10C

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

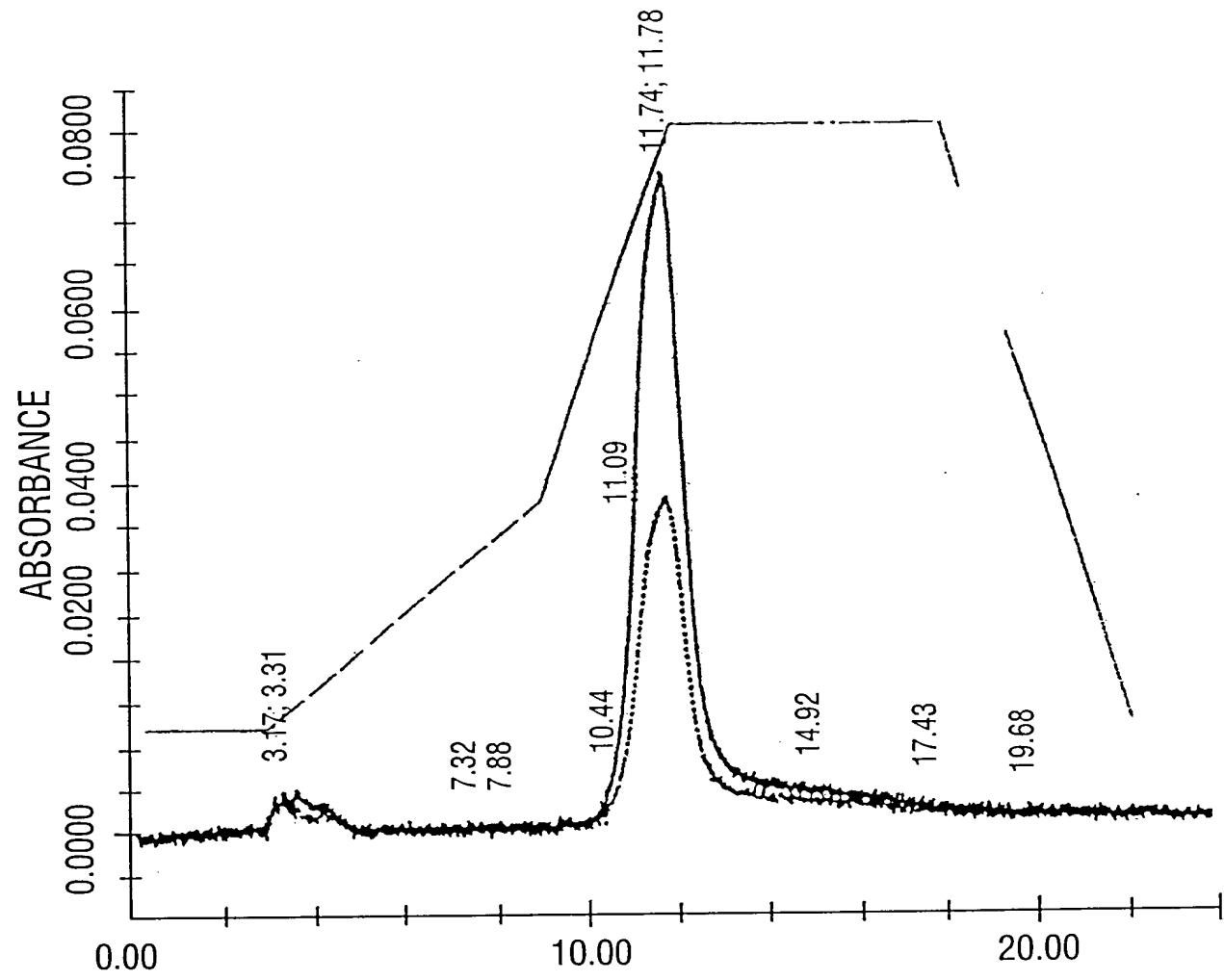


FIG. 10D

APPROVED	D.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

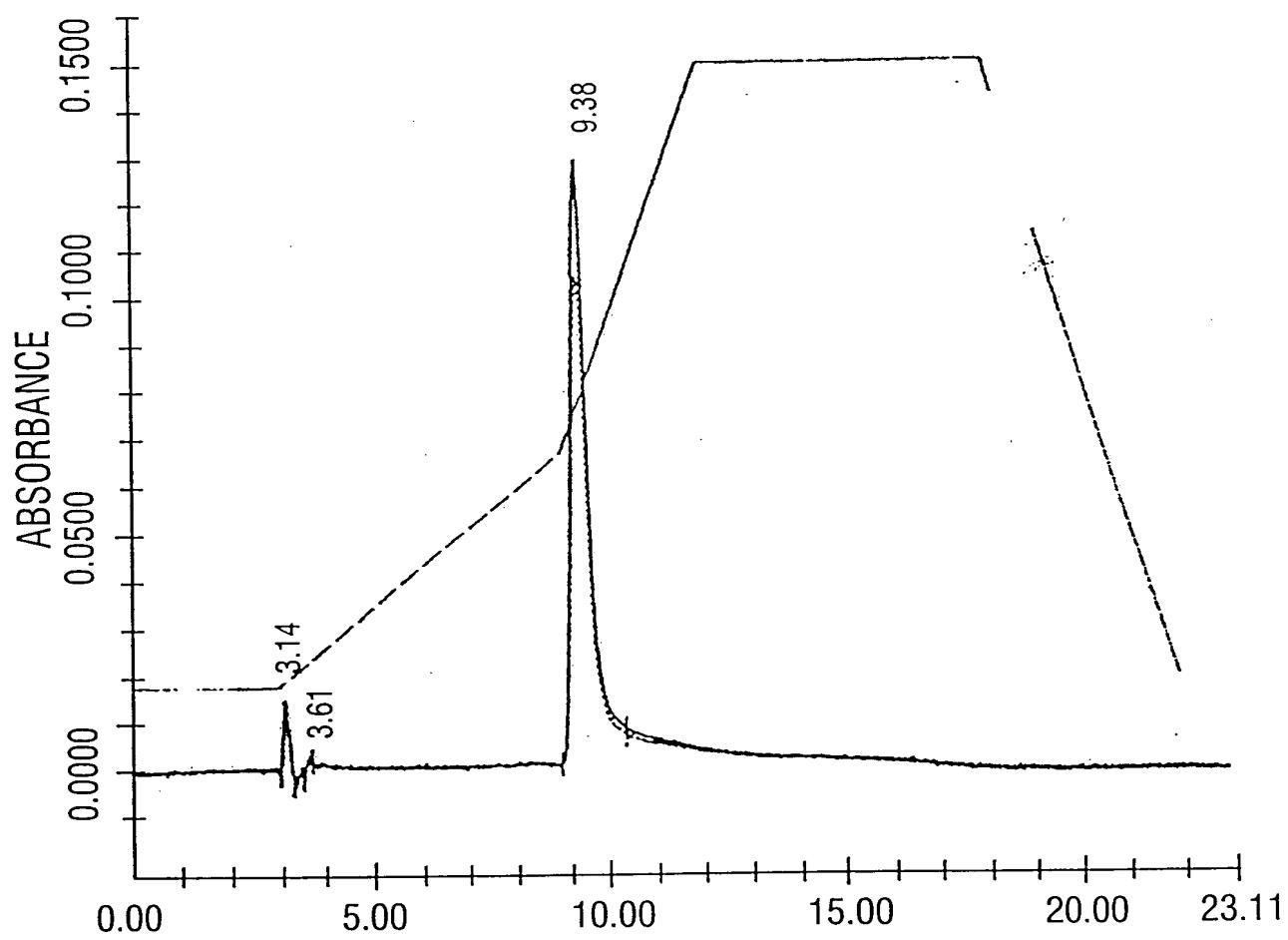


FIG. 10E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

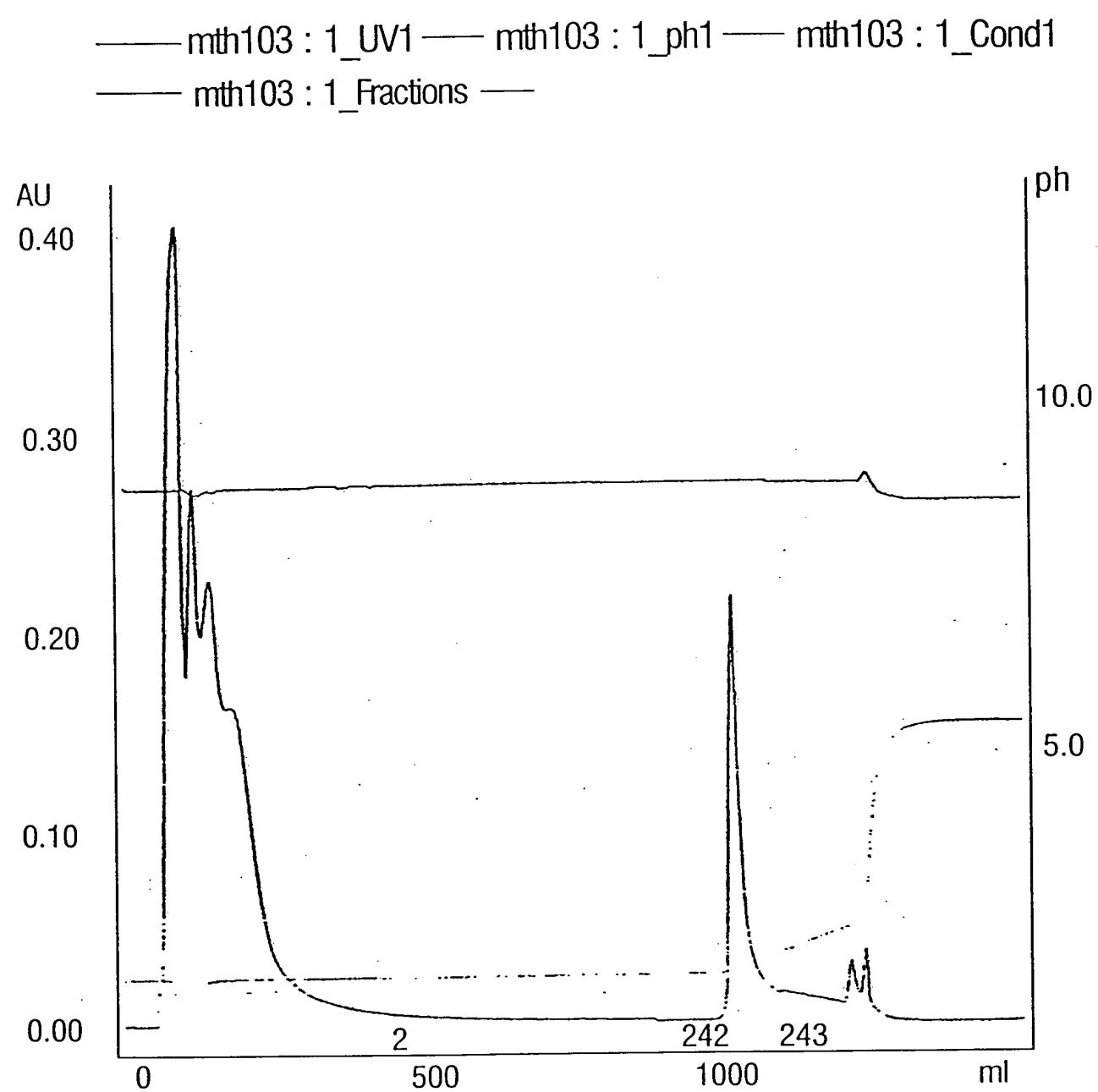


FIG. 11

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

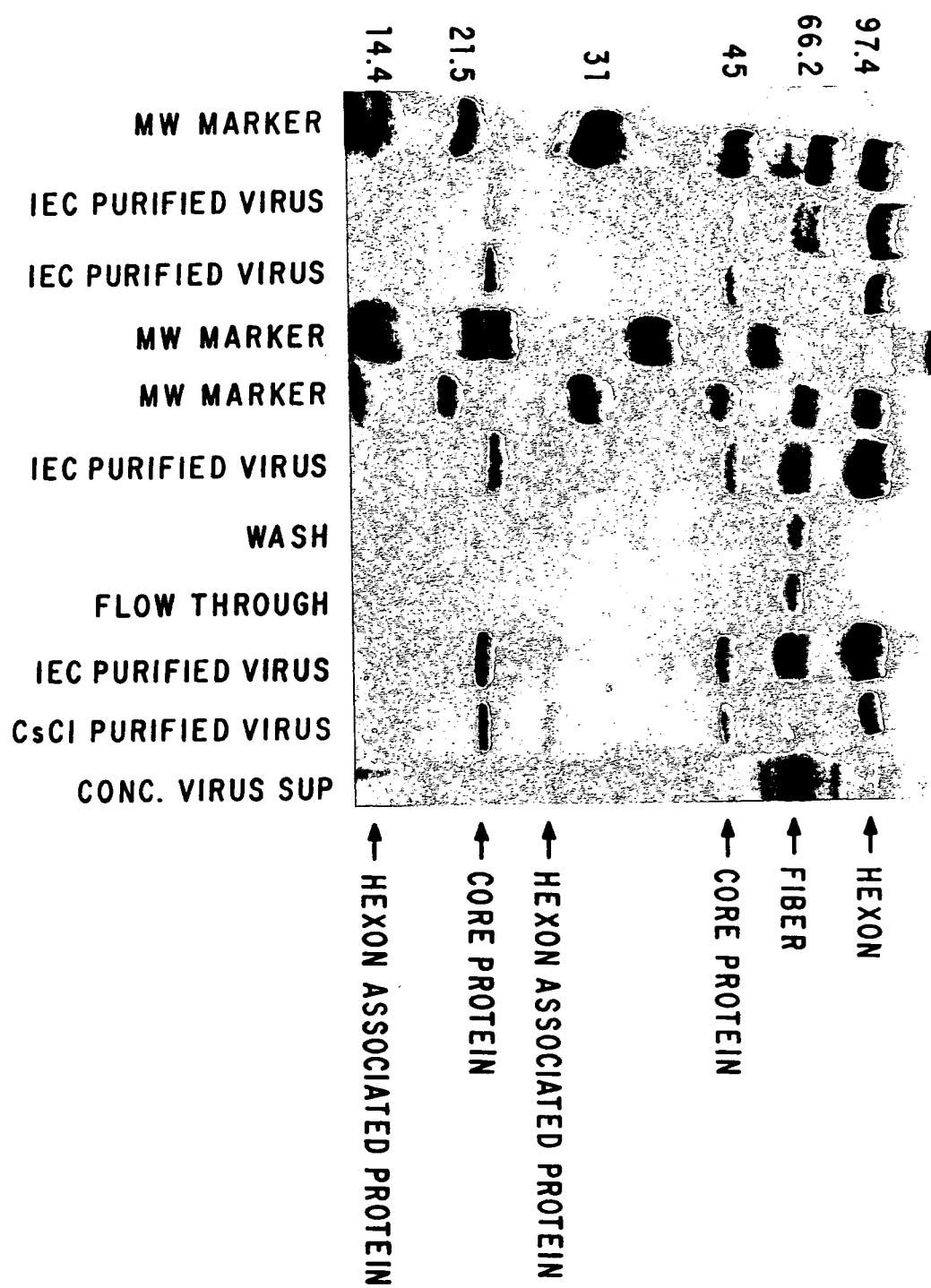


FIG. 12

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

→ 66.2 kd

NOVEX MWM

BSA STD

VECTOR SUP

CONC./DIAFIL.SUP

IEC PURIFIED Adp53

CsCl PURIFIED Adp53

BSA STD

FLOW THRU

WASH

NOVEX MWM

FIG.13

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APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

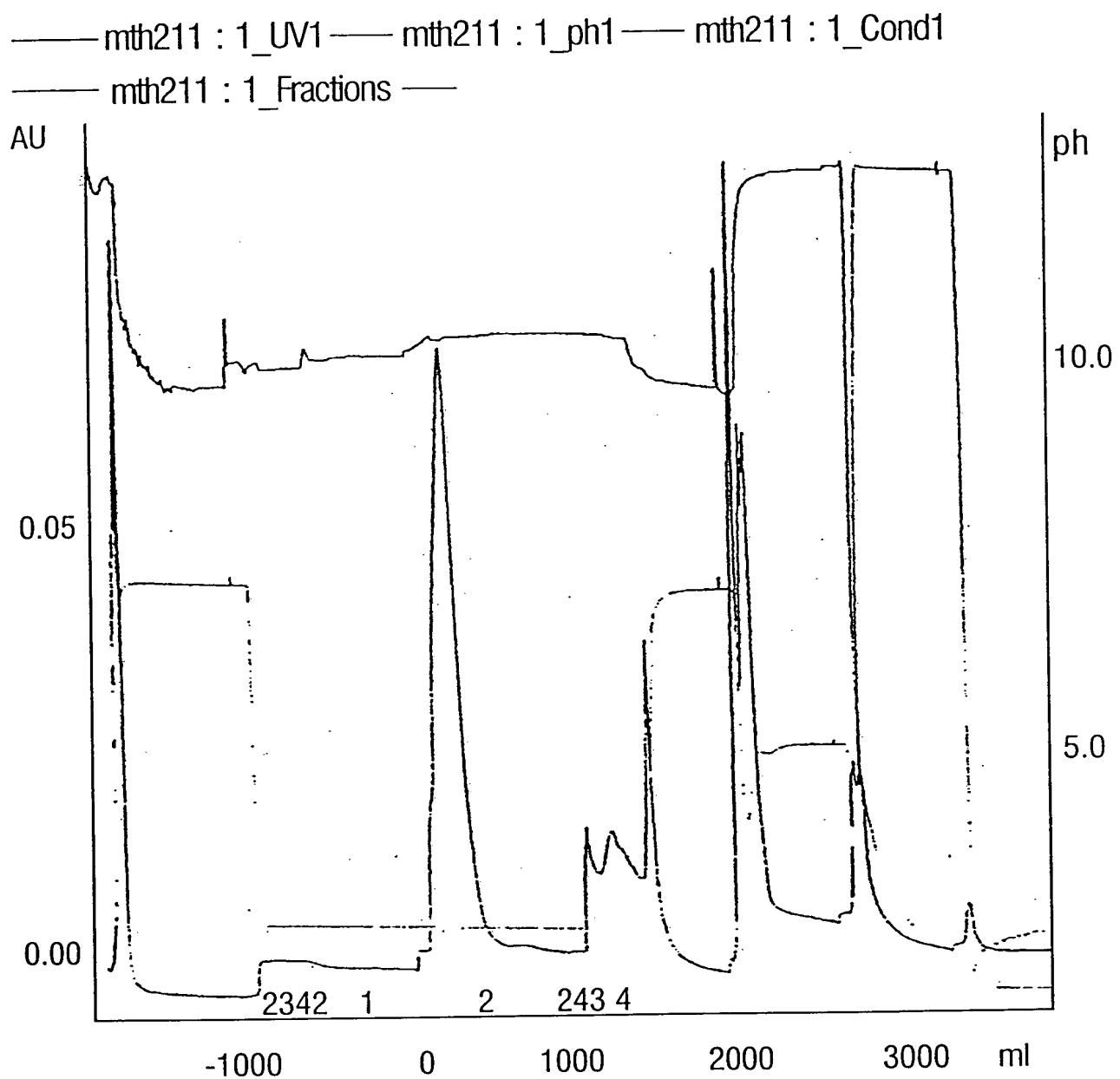


FIG. 14

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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

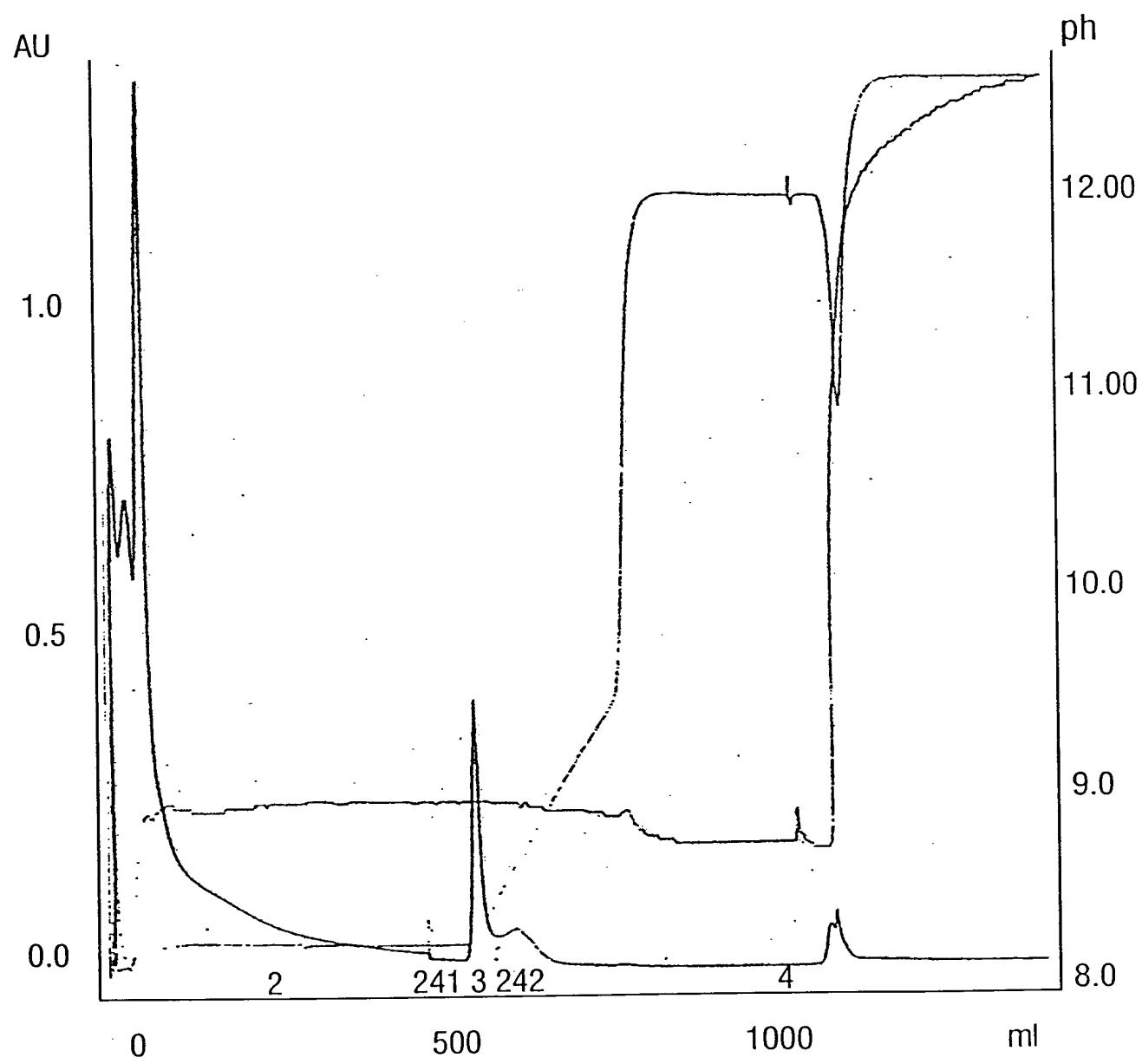


FIG. 15

2M

APPROVED	O.Q: FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

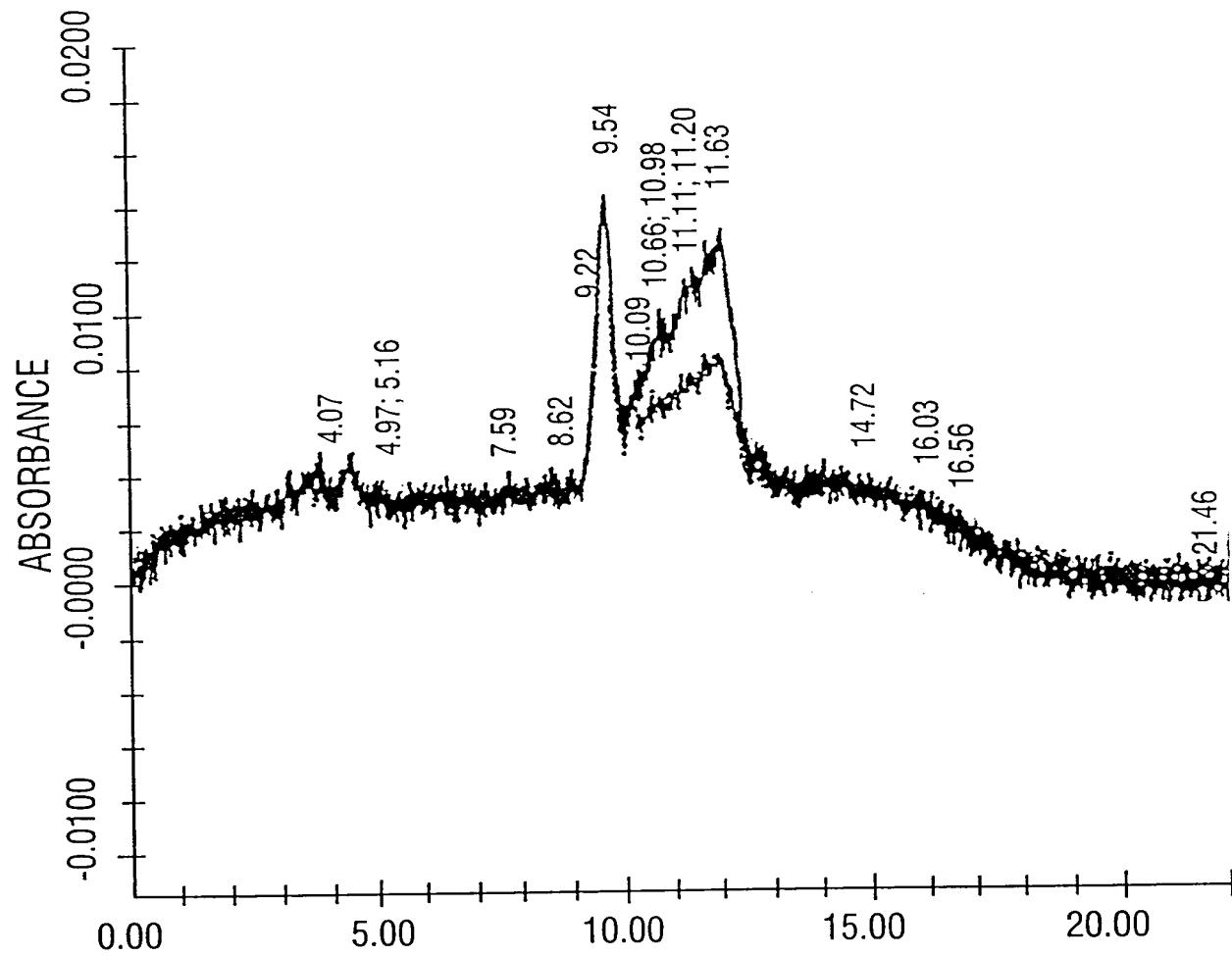


FIG. 16A

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

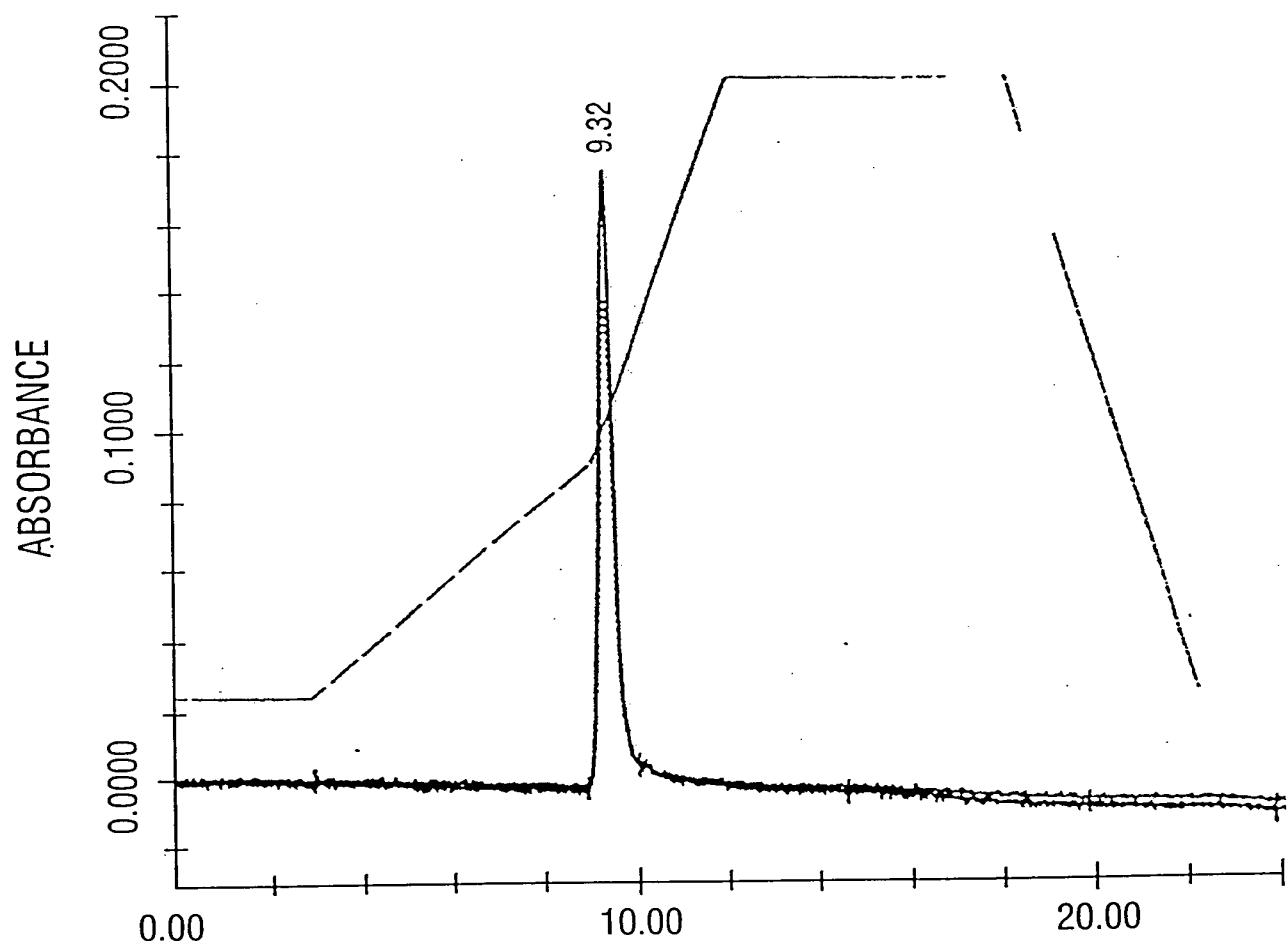


FIG. 16B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
RAFTSMAN		

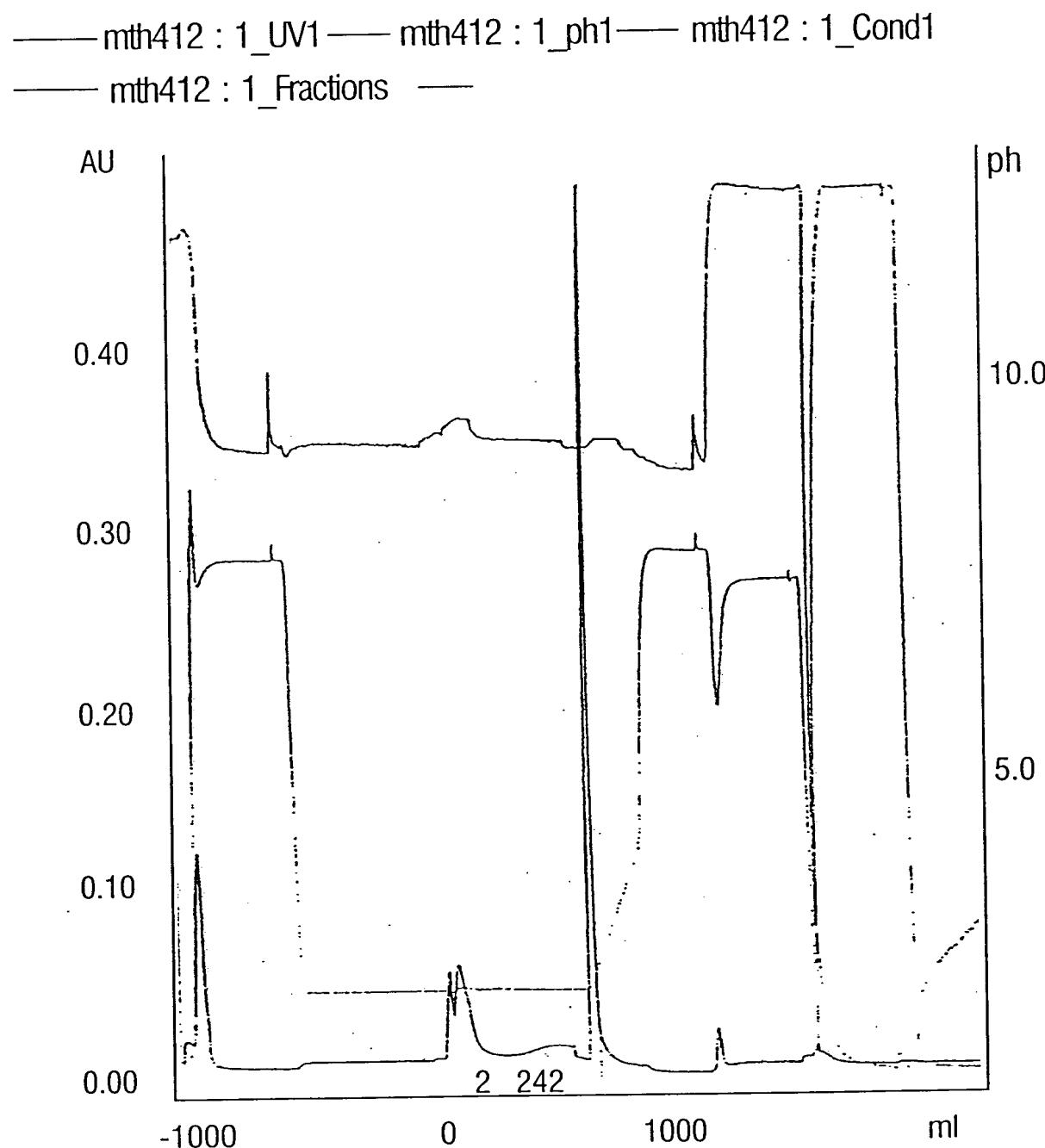


FIG. 17

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APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

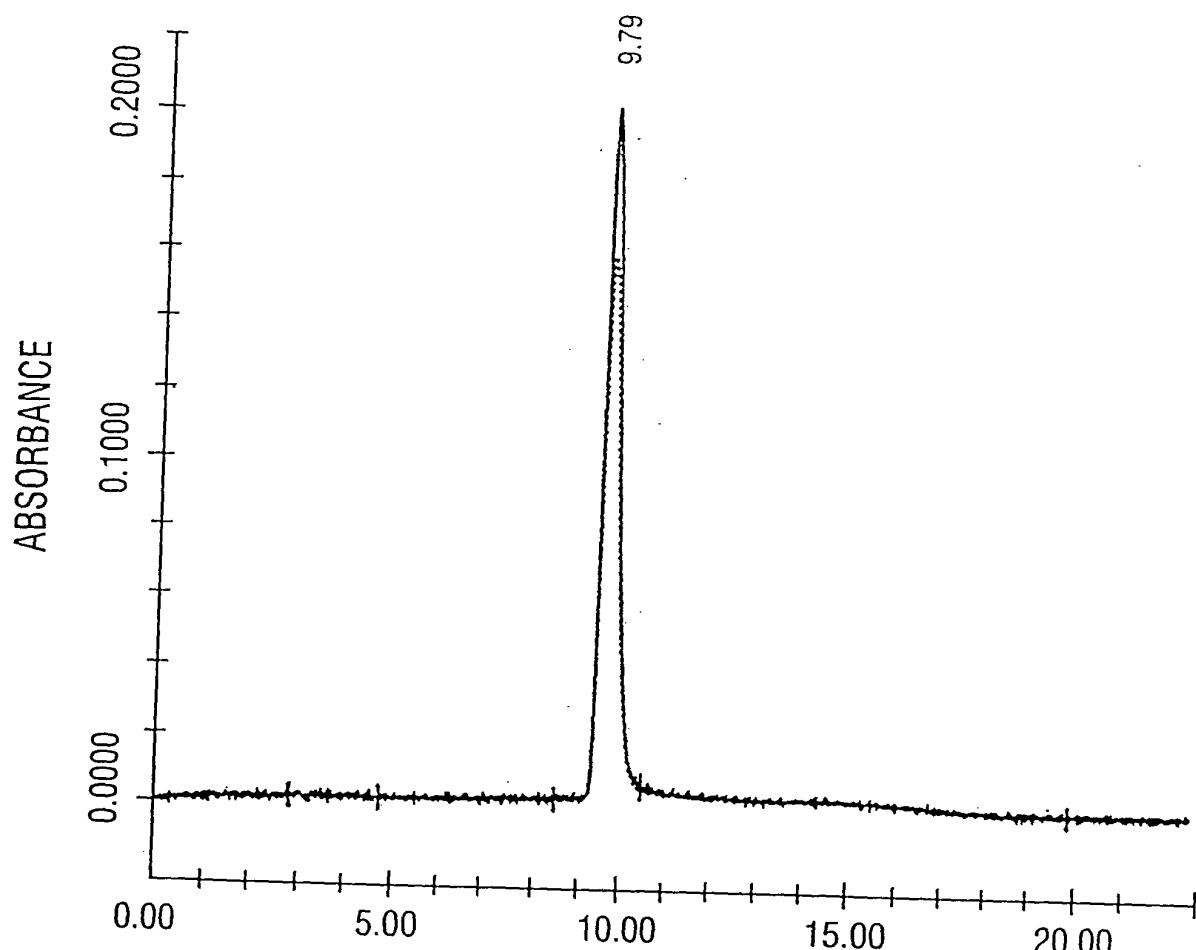


FIG. 18

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

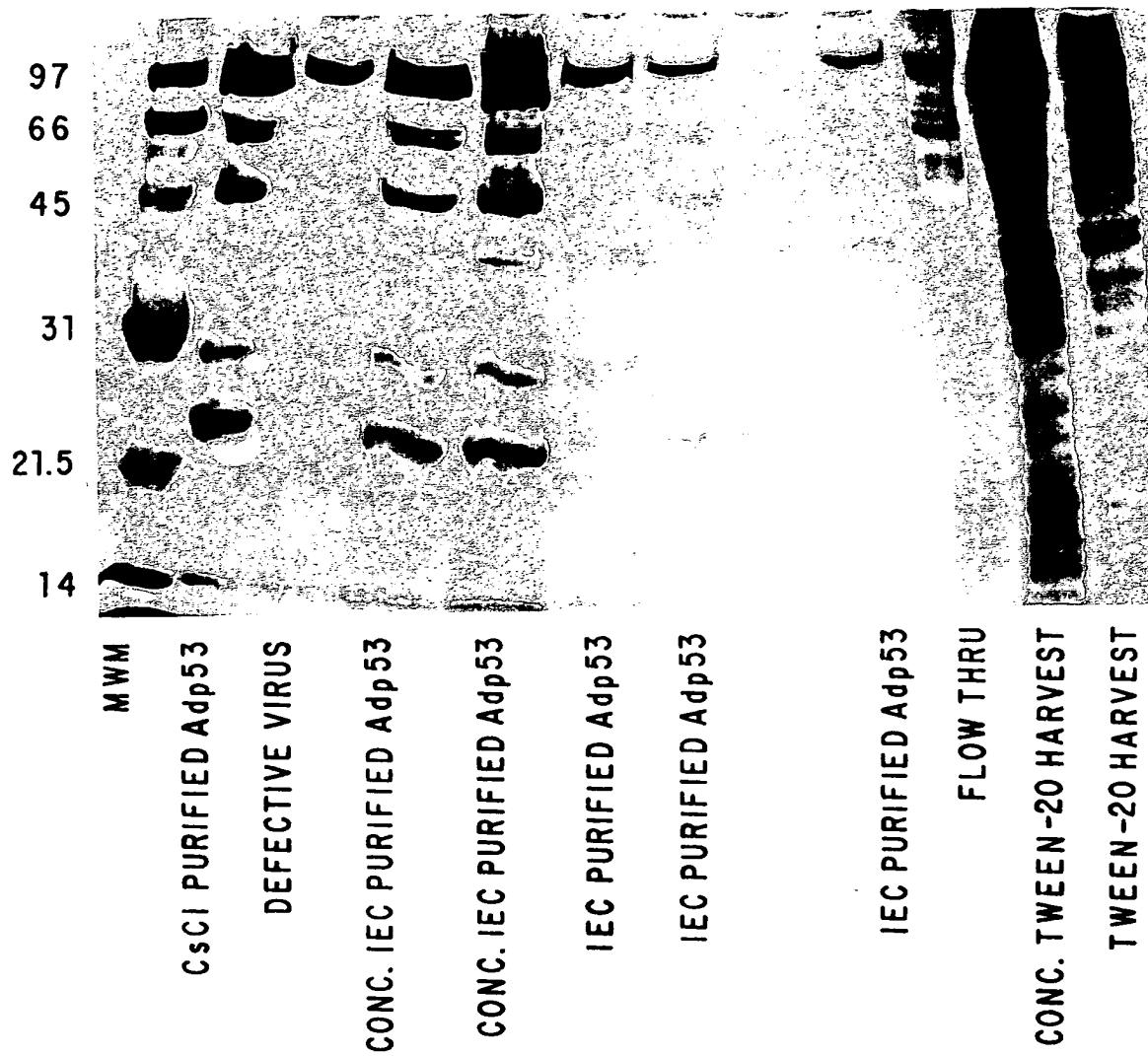


FIG. 19A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

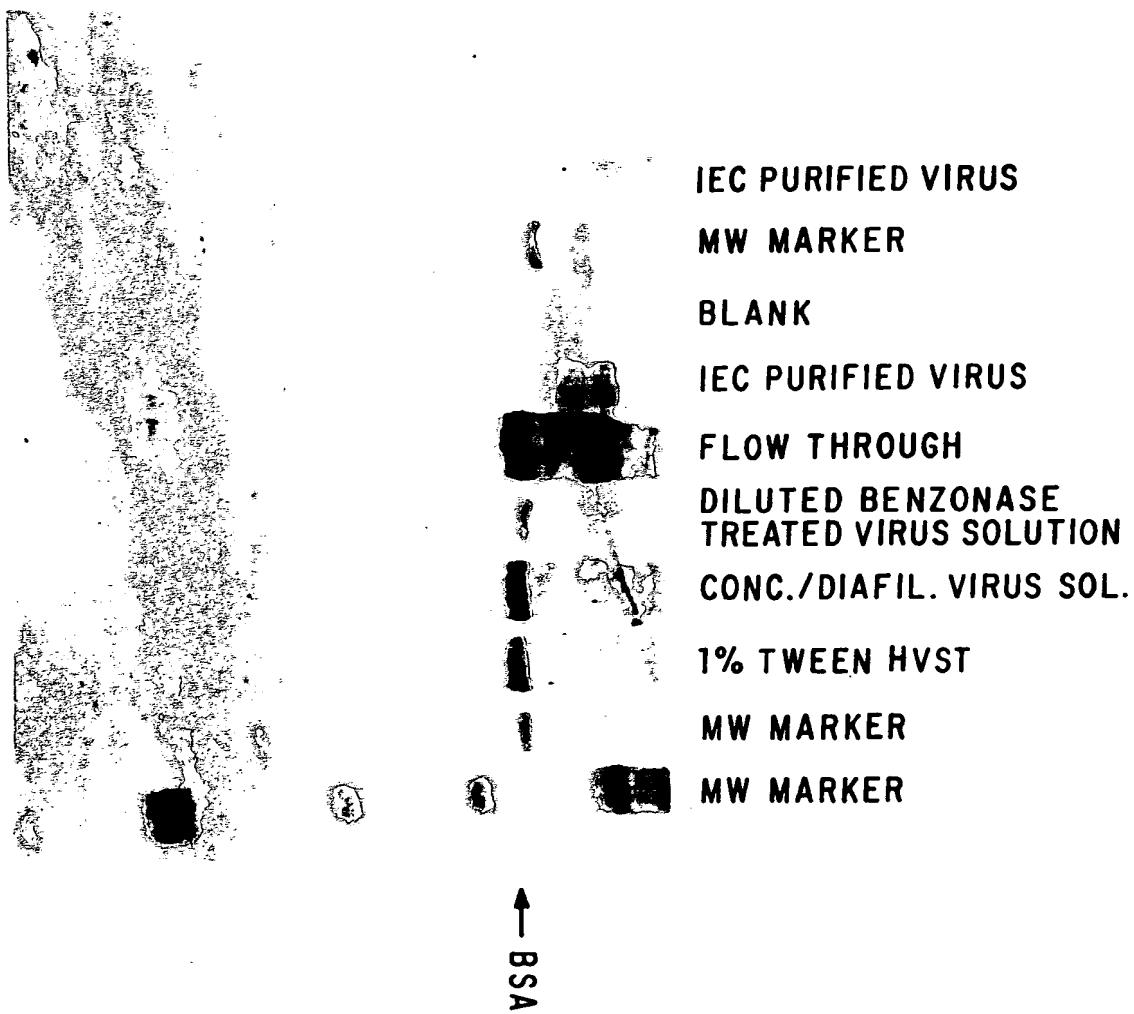


FIG. 19B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

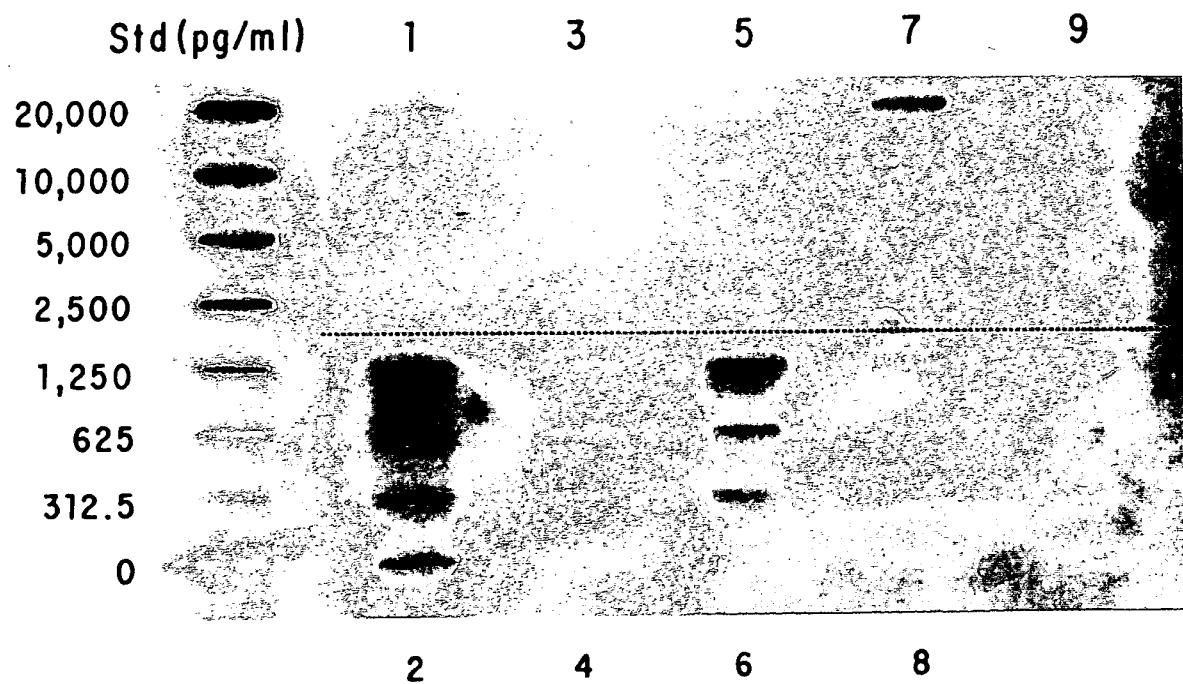


FIG. 19C

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APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

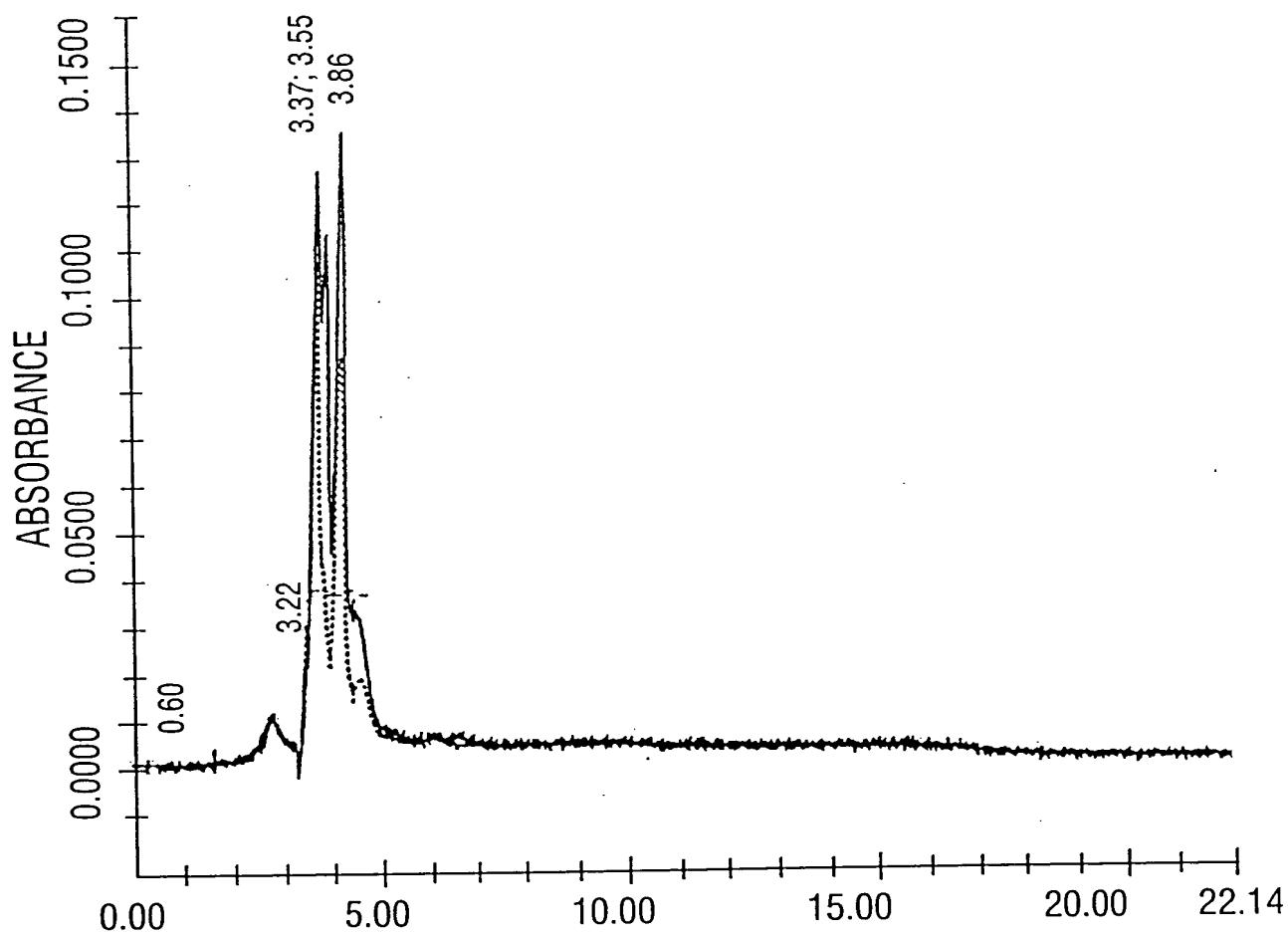


FIG. 20A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

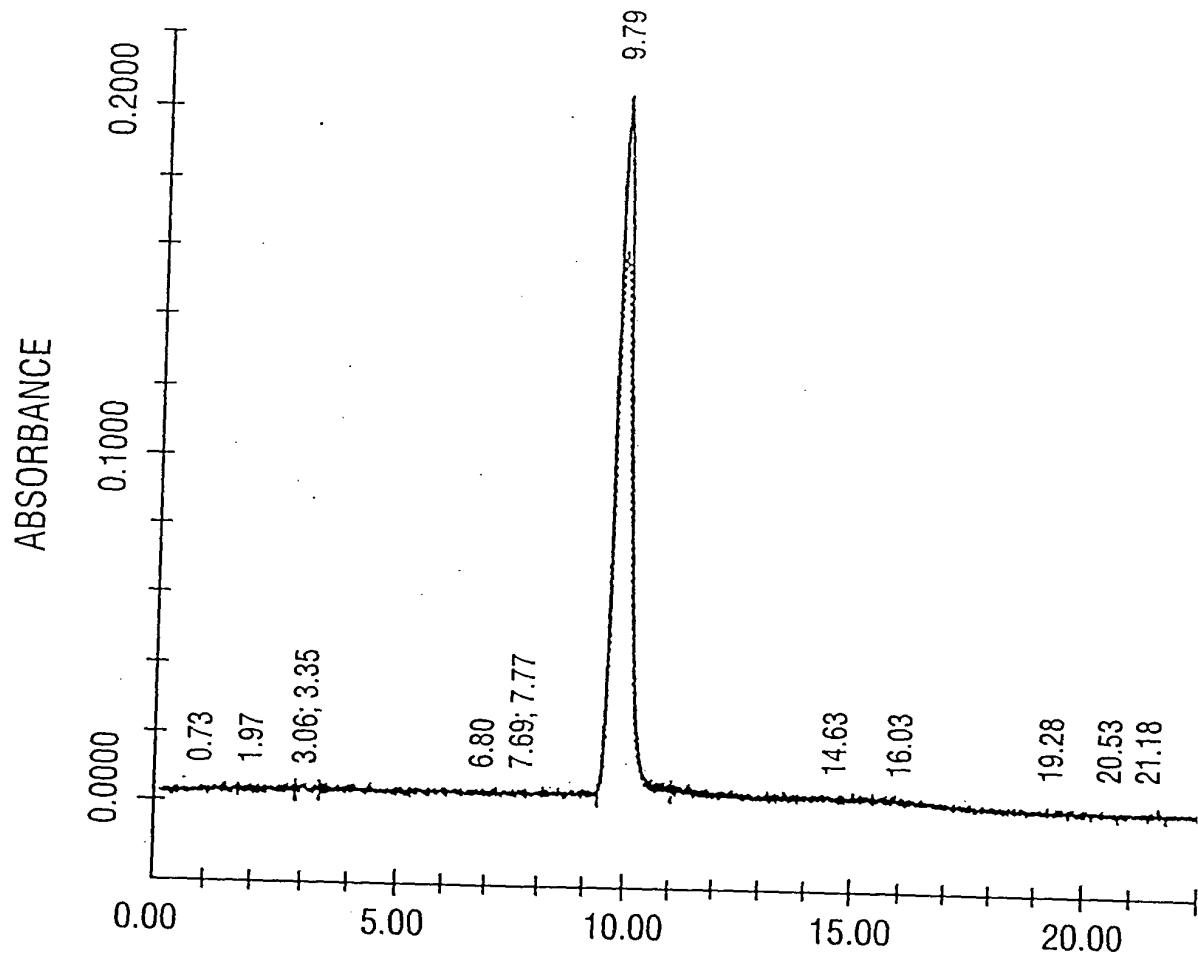


FIG. 20B

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

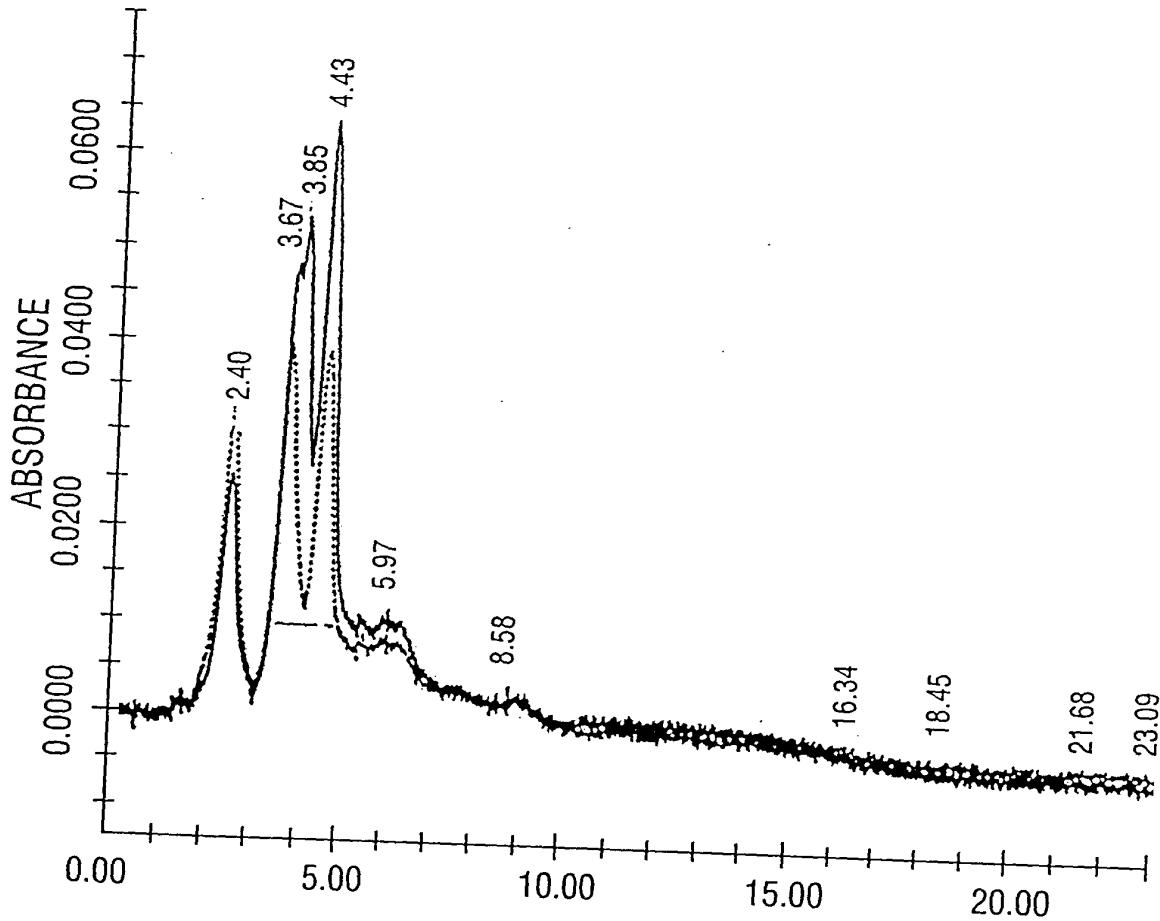


FIG. 20C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

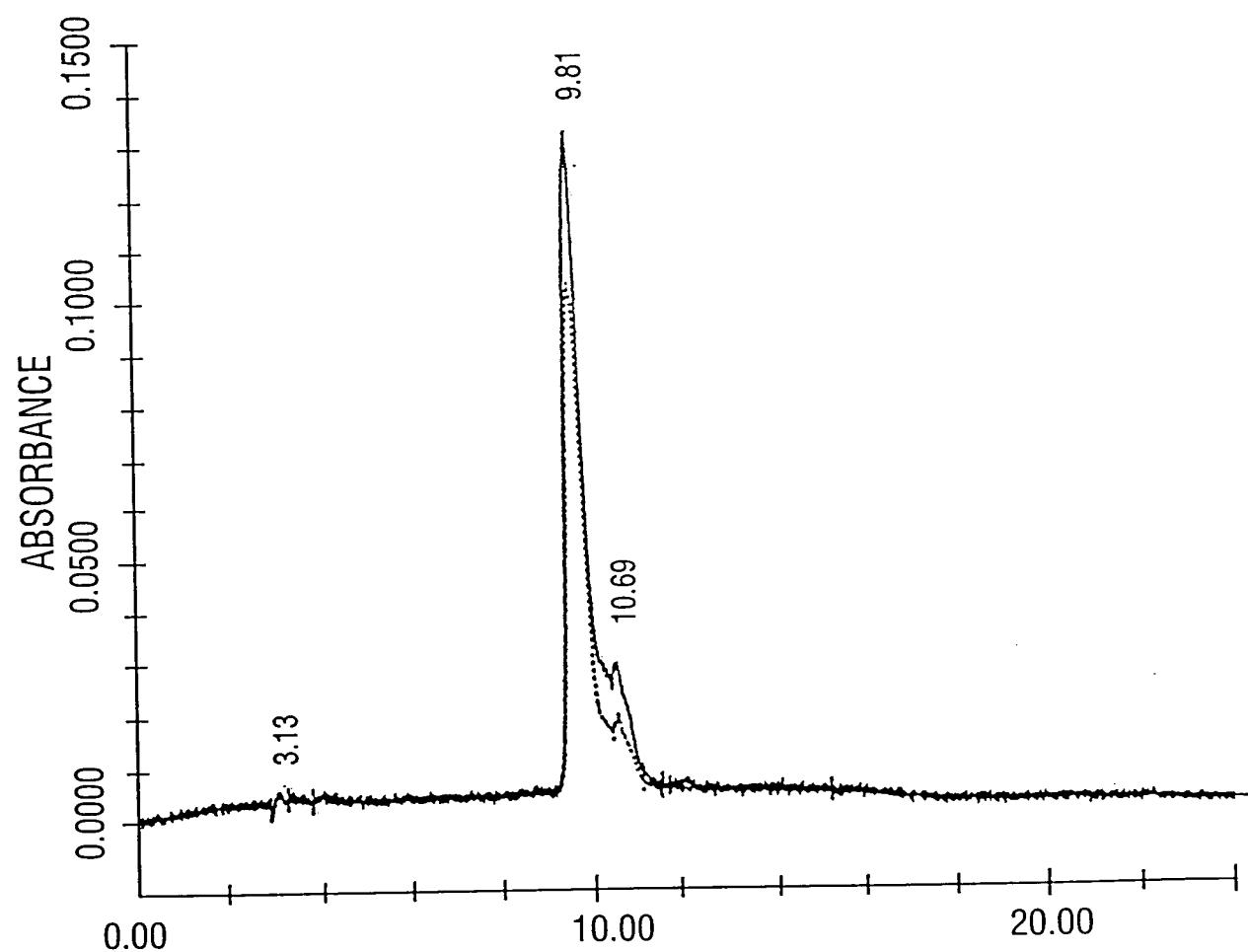


FIG. 20D

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSHAN		

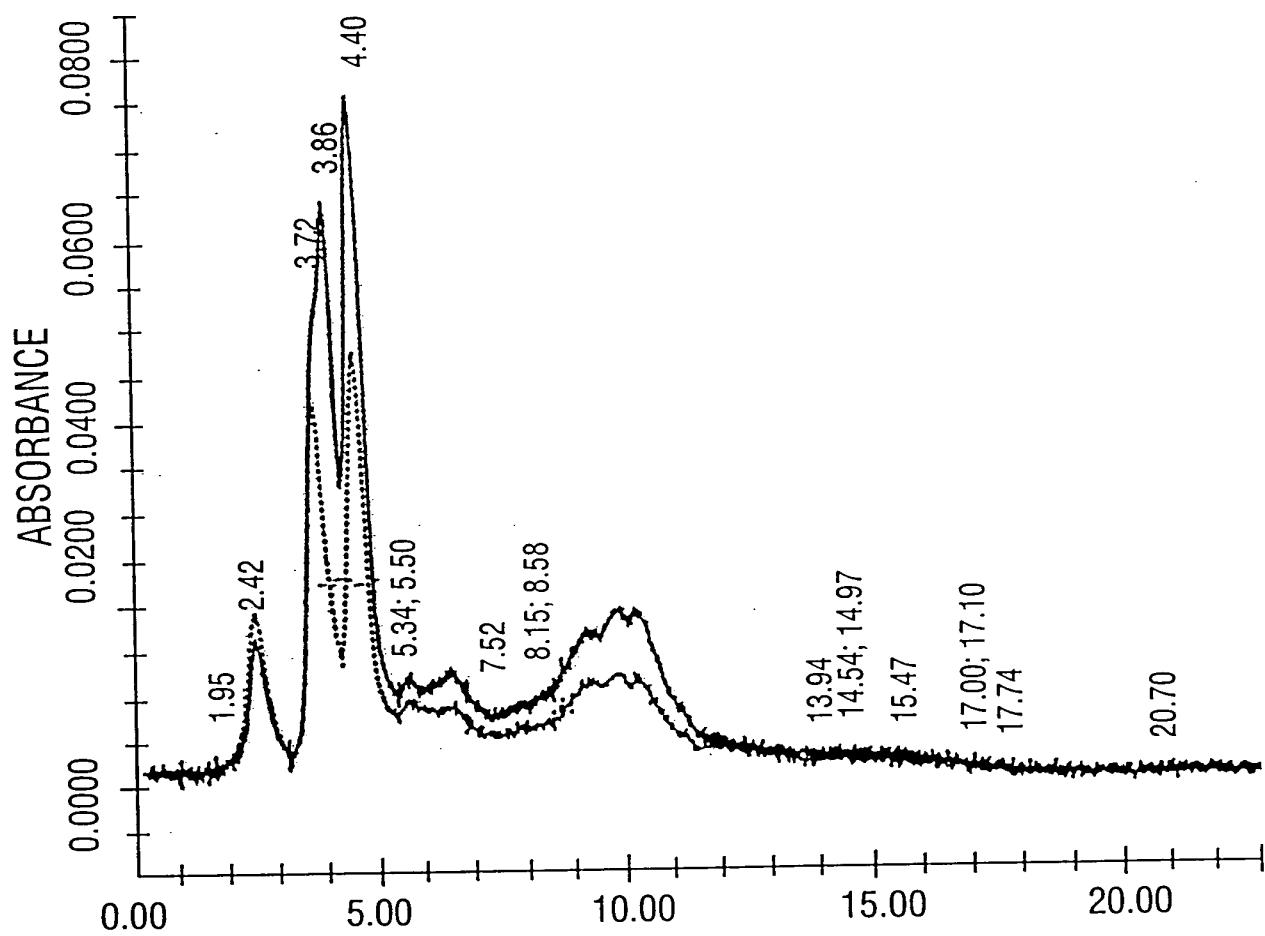


FIG. 20E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

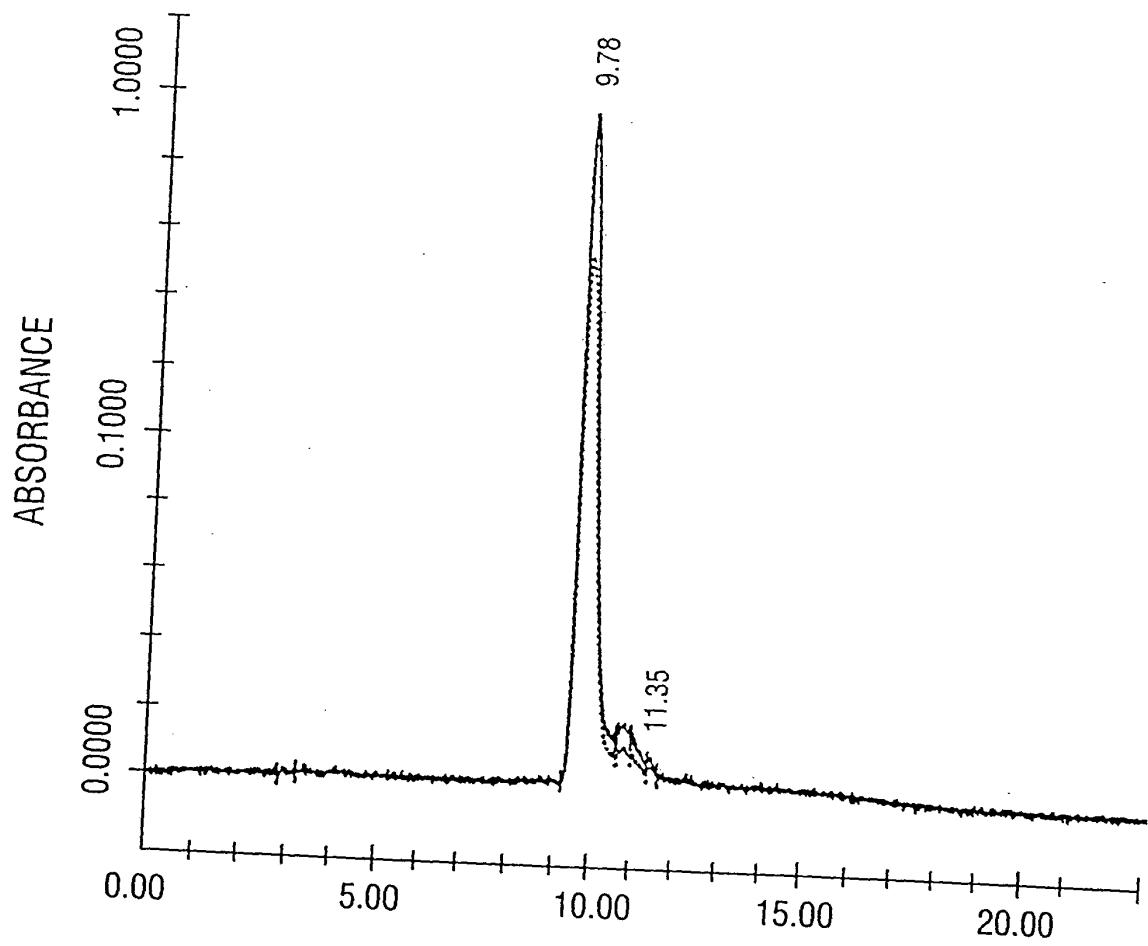
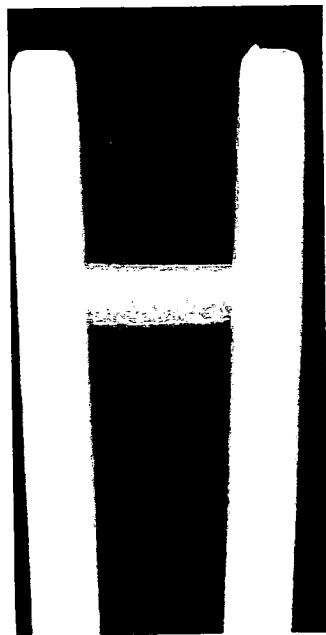


FIG. 20F

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APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



→ DEFECTIVE VIRUS BAND (TITER: 3×10^7 PFU/ml)

→ INTACT VIRUS BAND (TITER: 1×10^{11} PFU/ml)

FIG.21

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

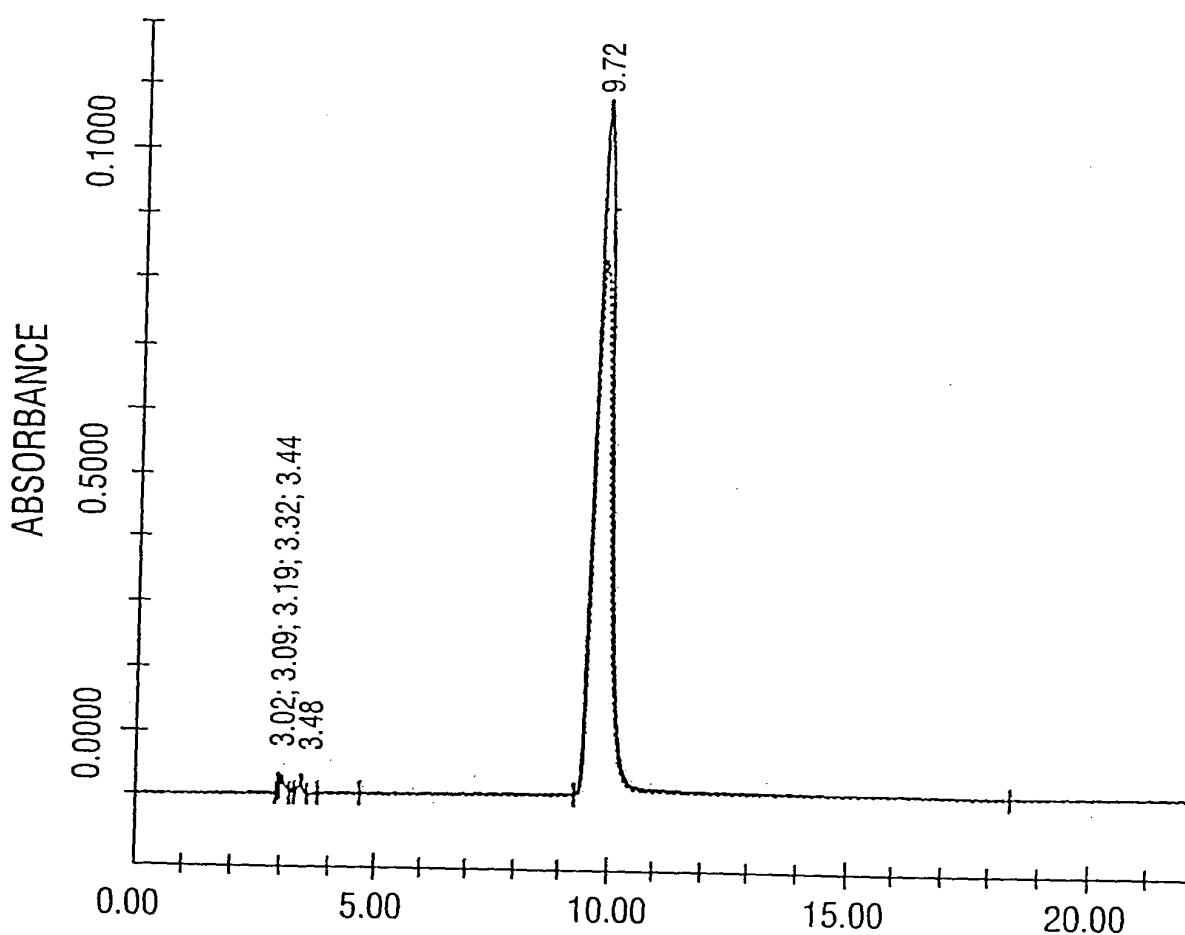


FIG. 22A

✓2

APPROVED	O.S. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

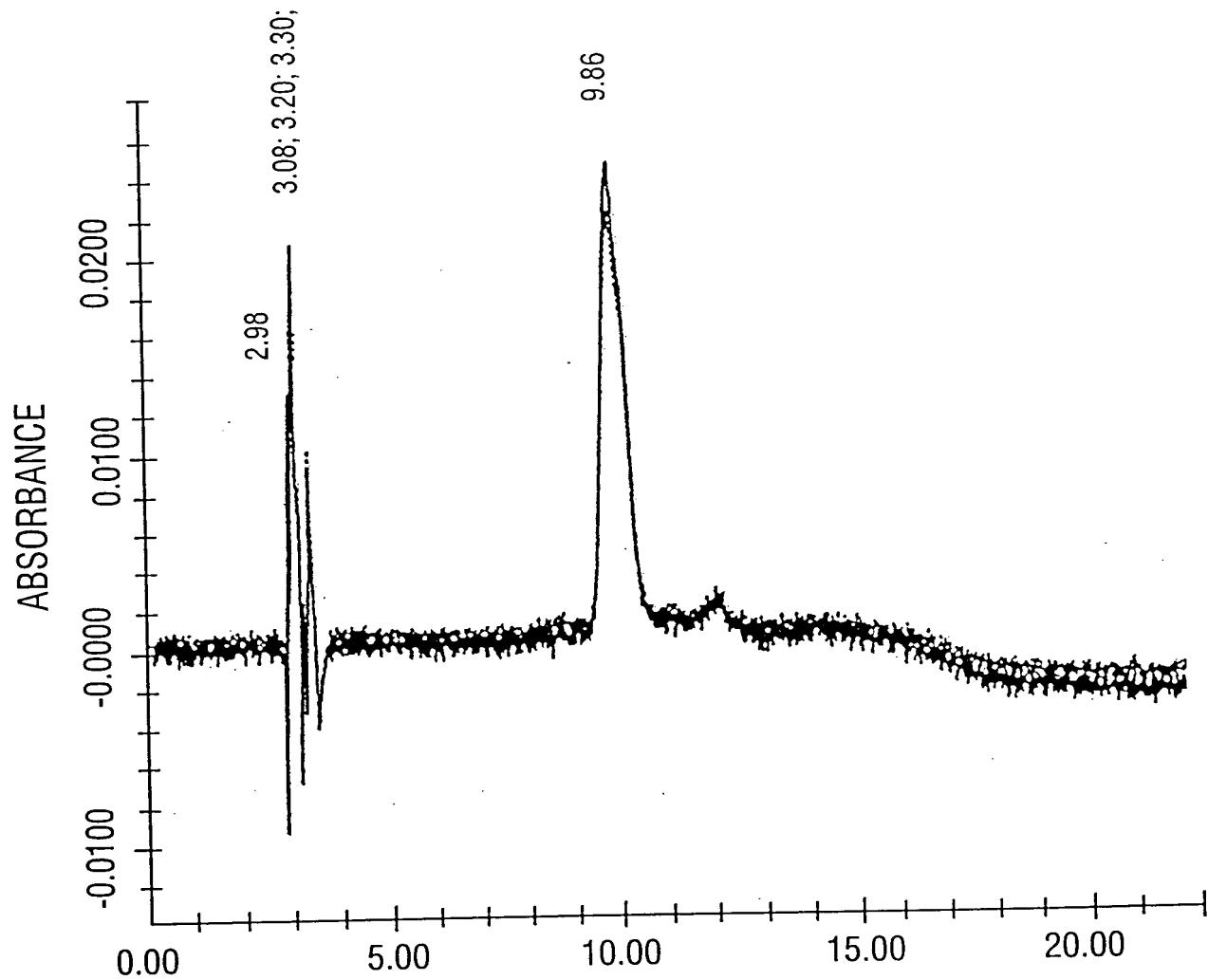


FIG. 22B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

	TILTER (PFU/ML)	VOL. (ml)	YEILD (PFU)	RECOVERY (%)	STEP	ACC.
CUBE (LOW PERfusion RATE ↓ KEEP GLUCOSE>1g/L) 1% TWEEN-20 BUFFER A						
HARVEST ↓ CLARIFICATION AND FILTRATION (0.22 UM)						
VIRUS SOLUTION ↓ CONC./DIAF. (10-FOLD CONC., DIAF INTO 1M NaCl BUFFER A	2.6x10 ⁹	1900	4.9x10 ¹²			
CONC. SUP ↓ BENZONASE TREATMENT (O/N, RT, 100u/ml)	2.5x10 ¹⁰	200	5x10 ¹²	102%		
TREATED SUP ↓ DILUTED WITH WATER TO CONDUCTIVITY= 22-25 mS/cm	7x10 ⁹	700	4.9x10 ¹²	98% 100%		
DILUTED VIRUS SOLUTION ↓ PURIFIED VIRUS	1.5x10 ¹⁰	240	3.6x10 ¹²	73% 73%		
↓ CONC./DIAF (5-FOLD CONC)	7x10 ¹⁰	50	3.5x10 ¹²	97% 71%		
FINAL PURIFIED PRODUCT						

FIG. 23